

BUILD A FOREST on a bluff, **STEP BY STEP**



**Brawny Athearn
SD60M reviewed**

October 2008 • www.ModelRailroader.com

Model Railroader®

SPECIAL TRACK SECTION

How to model main lines, sidings, and spurs

PLUS 3 more track
how-to projects

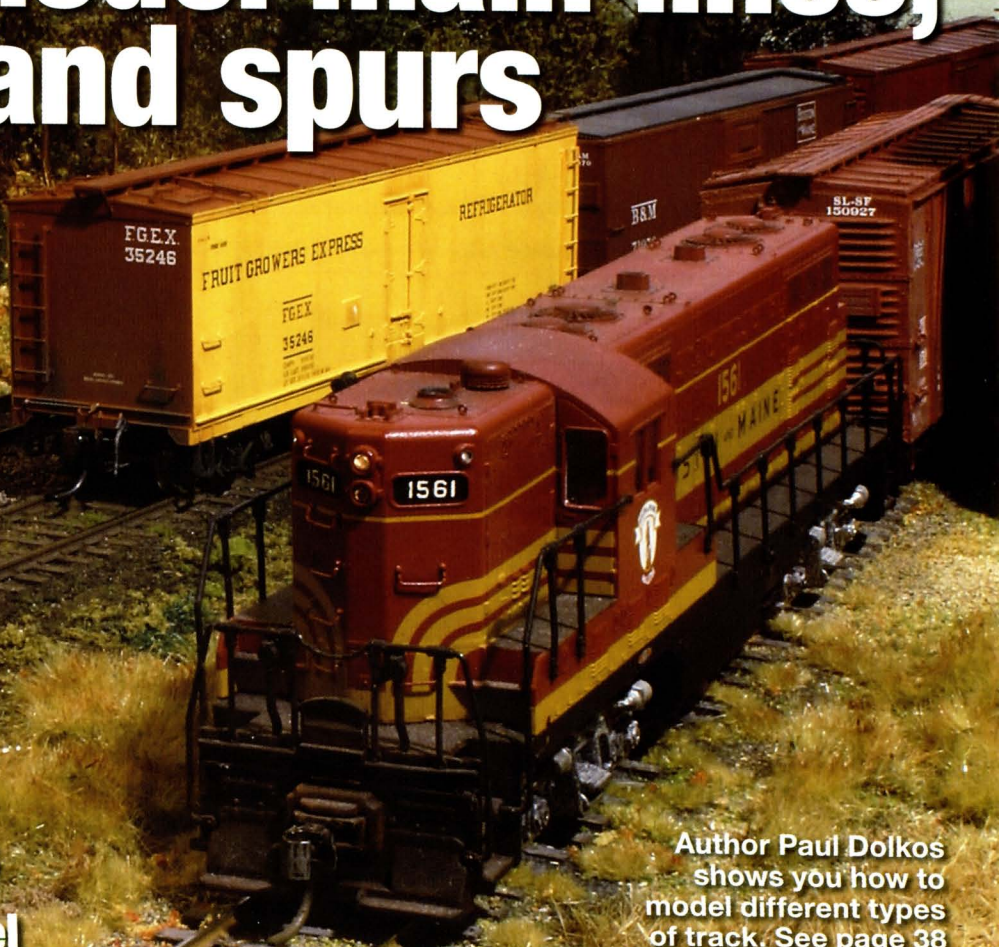
**Install a DCC
sound decoder**

HOW TO

- Build an N scale structure with odd corner angles
- Kitbash an SD10 diesel
- Operate your trains like the prototype

LANDMARK LAYOUT:

Bob Hayden's scenic Carrabasset & Dead River Ry.



Author Paul Dolkos
shows you how to
model different types
of track. See page 38

\$5.95



1 0

Vol. 75 • Issue 10

NOW ARRIVING FROM ATLAS MODEL!

LOCOMOTIVES



ROLLING STOCK



**MORE
ROAD NAMES
COMING SOON!**

ATLAS MASTER® HO GP40-2 LOCOMOTIVE

New Model!

- Etched metal radiator and dynamic brake fans†
- Dynamic brake options: Standard range, extended range or non-dynamic brake hatch†
- 2,600 or 3,600 gallon fuel tank
- Chessie System units will feature a rock-style plow and hood-mounted bell to match the prototype.

- Available in Silver (NMRA 8-pin plug for DCC or Gold (DCC/sound) Series

Check out these Paint Schemes!

- Conrail, Atlanta & West Point*, Western of Alabama*, Georgia Railroad*, Chessie System* (B&O) and (C&O), Grand Trunk Western, Alaska

www.atlasrr.com/HOLoco/hogp40-2.htm



*CSX Licensed Product Products bearing Missouri Pacific (MP) marks are made under trademark license from the Union Pacific Railroad Company

HO & N 1932 ARA BOX CAR

New Model!



www.atlasrr.com/HOFreight/ho1932boxcar.htm or www.atlasrr.com/NFreight/n1932boxcar.htm

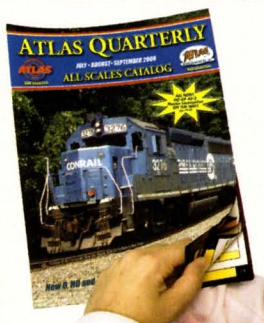
- Murphy Panel or 11 panel flat riveted roof as appropriate per road name
- 4/4 Dreadnought or flat, riveted ends as appropriate per road name

Check out these Paint Schemes!

- Central of Georgia, Clinchfield*, Missouri Pacific (I-GN), Maine Central, Warrior River Terminal

See what else is available this month from Atlas in the latest edition of the **ATLAS QUARTERLY!**

THE NEW ATLAS QUARTERLY ALL SCALES CATALOG



Welcome to the Atlas Quarterly All Scales Catalog. This catalog is the most comprehensive source for all Atlas products introduced throughout the year. It is a resource designed to provide distributors, hobby stores and you, the end customer, with up to date access for the ever changing product lines in every major Atlas scale, (N, HO and O) during the four quarters of every year.

Here's a quick look at the information you'll find inside:

- Product announcements available for pre-order
- Product arrivals available in your local hobby store
- Atlas track and accessory order forms
- Atlas all scales international hobby store listing

Visit your hobby shop or www.atlasrr.com to get a copy today!

To find an Atlas dealer near you, go to <http://locator.atlasrr.com>

Atlas Model Railroad Co., Inc. • 378 Florence Avenue • Hillside, NJ 07205 • www.atlasrr.com



www.firsthobby.com

First Hobby, 2495 E. Federal Drive, Decatur, IL 62526
Phone: 866-240-0252 (toll-free) or 217-872-1733
Email: sales@firsthobby.com, Fax: 217-872-1737



Broadway Limited HO

BlueLine Series

(with sound, without decoder)

- **AC6000CW** \$134.99
 - SD9 \$134.99
- **PRR 4-8-2** \$189.99
- **C30-7** \$134.99
 - SD7 \$134.99
- **F7 AB Set** \$189.99
 - F7A \$134.99
- **FA/FB Set** \$189.99
 - FA \$134.99
- **RSD15** \$134.99
- **4-8-8-4 Big Boy** \$329.99
- **PRR 2-10-4 J1** \$209.99
- **N&W 2-6-6-4** \$279.99
- **C&O 2-10-4 T1** \$209.99
 - SD40-2 \$134.99
- **PRR 4-4-4-4 T1** \$249.99
 - F3 AB Set \$189.99
- **2-8-2 Heavy Mikado** \$174.99
- **2-8-2 Light Mikado** \$174.99
 - ATSF 4-8-4 \$189.99
- **SP 4-8-8-2 AC-4/5** \$279.99
 - PRR GG-1 \$149.99
 - NYC 4-8-4 \$209.99
 - E7 AB Set \$209.99
 - E7A \$134.99

Brass-Hybrid Series

(with sound & decoder)

- **NYC 4-8-2** \$399.99
- **UP 2-10-2** \$399.99

- **SD40-2** \$214.99

(without sound & decoder \$114.99)

- **C30-7** \$214.99

(without sound & decoder \$114.99)

- **California Zephyr**

Passenger Cars \$57.99-\$61.99

- **NYC 4-6-4** \$279.99

(without sound & decoder \$199.99)

- **F7 AB Set** \$249.99

- **F7A** \$182.49

Proto HO

- **Proto 2000 H10-44** \$103.99

With Decoder & Sound \$183.99

- **Proto 2000 F7AB** \$209.99

With Decoder & Sound \$284.99

- **Proto 2000 MILW Hiawatha**

E7A With Decoder & Sound \$151.99

E7AA With Decoder & Sound \$279.99

E7A Without Decoder & Sound \$111.99

E7AA Without Decoder & Sound \$209.99

Walthers HO

- **FlexiVan Flat w/Trailers** \$37.49
- **Bi-Level Auto Carriers** \$24.99
- **Coal Hopper 6-Pack** \$83.99
- **Coalporter 6-Pack** \$83.99
- **Hiawatha Cars** \$37.49-\$41.69
- **130' Turntable** \$259.99

InterMountain HO

- **F7A** \$81.99 - **F7B** \$77.99

- **F3A** \$81.99 - **F3B** \$77.99

- **FP7A** \$103.99

(FP7A with sound & decoder \$159.99)

- **SP 4-8-8-2 AC12** \$254.99

(AC12 with sound & decoder \$334.99)

- **U18B** \$103.99 (w/DCC \$159.99)

- **FP9** \$104.99 (w/DCC \$159.99)

Precision Craft HO

- **Pennsylvania 2-10-0 I1sa**

with sound & decoder \$334.99

without sound & decoder \$259.99

- **B&O 4-6-2 President**

with sound & decoder \$299.99

without sound & decoder \$219.99

- **SP 4-8-8-2 AC-12**

with sound & decoder \$569.99

without sound & decoder \$499.99

- **Sharknose AB Set**

with sound & decoder \$329.99-\$339.99

without sound & decoder \$239.99-\$249.99

- **GN 4-8-4 S-2**

with sound & decoder \$334.99

without sound & decoder \$259.99

- **SP 4-8-4 GS4**

with sound & decoder \$379.99

without sound & decoder \$329.99

- **SW1500**

with sound & decoder \$172.49

without sound & decoder \$89.99

- **F3 AB Set**

with sound & decoder \$319.99

without sound & decoder \$209.99

Atlas HO

- **GP38** \$100.99-\$107.99

(With Decoder & Sound \$219.99-\$227.99)

A&R, BNSF, CSX, ATSF, North Shore

- **GP40** \$100.99

(With Decoder & Sound \$219.99)

CN, CP, DT&I, CB&Q, Loram

- **GP7** \$82.99-\$89.99

B&A, CB&Q, DTSL, ATSF, CRR,

NC&StL, P&LE, PC, RF&P

- **Amtrak Dash 8-32BHW** \$99.99

(With Decoder & Sound \$222.49)

- **Dash 8-40B** \$92.99

(With Decoder & Sound \$214.99)

Union Pacific, San Luis Rio Grande

- **Dash 8-40BW** \$99.99

(With Decoder & Sound \$222.49)

BNSF Warbonnet, BNSF H2

- **MP15DC** \$109.99

(With Decoder & Sound \$229.99)

CP, C&NW, CSX, GATX, NS, SOU, TCT

- **SD35/SDP35** \$97.49

(With Decoder & Sound \$217.49)

CR, L&N, WM, SP, N&W, EMD, ACL, SCL

New! • **H600/660** \$109.99

EJ&E, Erie, NH, MEC, MILW, SP

Tower 55 HO

With or without sound & decoder.

- **ES40DC:** NS

- **ES44AC:** ATSF, BNSF, CP, Ferromex, KCSM, MILW, UP

- **ES44DC:** BNSF, CN, CSX

- **SD70ACe:** BNSF, CSX, EMD, Ferromex, MRL, UP

- **SD70M-2:** CN, FEC, NS

Hornby/Rivarossi HO

- **C&O 2-6-6-6 Allegheny** \$399.99

(with sound & decoder)

Rapido Trains HO

- **TurboTrain** \$399.99

- **Passenger Cars** \$49.99-\$54.99

Bachmann HO

- **Spectrum 3-Truck Shay with Sound & DCC** \$279.99

Athearn Genesis HO

- New!** • **SD60** \$114.99

(with sound & decoder \$189.99)

BNSF, NS, CSX

- **F2/F3/F7/F9**

AB Sets \$164.99

Separate A's \$84.99

- F2/F3/F7/F9 With Sound & Decoder**

AB Sets \$254.99

Separate A's \$134.99

- **SD45-2** \$105.99

(With Sound \$176.99)

- **Modernized F Units**

A Unit With Sound/DCC \$161.99

(A Unit Without Sound/DCC \$107.99)

AB Set With Sound/DCC \$309.99

(AB Set Without Sound/DCC \$209.99)

- F45 & FP45** \$114.99

(with sound & decoder \$184.99)

BN, MRL, NYSW, ATSF, MILW

- SP 4-8-2 MT-4** \$224.99

(with sound & decoder \$289.99)

- SP Pullman Standard**

77' Chair Car \$47.49

Athearn Ready-To-Roll HO

- **AC4400** \$72.99

BNSF, CP, CSX, UP, GE, CEFX

- **F59PHI** \$59.99

ACE, CAL, GO, Utah

- **F7AB Set** \$56.49

CBQ, KCS, NP

- New!** • **GP35** \$67.49

B&M, L&N, MKT, NYC, Peabody

- **RS3** \$67.49

CN, CPR, CoG, MEC, N&W, SOU

- **SD40-2** \$73.99

Ferromex, Indiana, GATX, NS

- **SD40T-2** \$72.99

DRGW, KCS, SP, SSW

- **SD45** \$72.99

EL, ATSF, GN, SOU

- **SW1000** \$67.49

BNSF, BN, CB&Q, DRGW

- **MAXI I 5-Unit Well Car** \$97.49

TT/DTTX

MTH HO

All units with decoder & sound!

- **SD70ACe** \$234.99

CSX, KCS, BNSF, EMD, UP, UP Heritage

- **4-8-4 Northern** \$419.99

SP, BNSF, WP, American Freedom

- **NYC 4-8-2 Mohawk** \$419.99

DCC

Digitrax

- **Zephyr Starter Set** \$159.99
- **Super Empire Builder Set** \$264.99
- **Super Empire Builder w/Radio** \$409.99
- **Super Chief Set (8 amp)** \$349.99
- **Super Chief w/Radio (8 amp)** \$479.99

MRC

- **Prodigy Advance Squared** \$249.99
- **Prodigy Advance Wireless** \$399.99
- **Prodigy Express** \$135.79

NCE

- **Powerhouse Pro 5-Amp Set** \$414.99
- **Powerhouse Pro w/Radio** \$545.99
- **Power Cab Starter System** \$149.99

Lenz

- **Set-100 System** \$279.99

Athearn N

- **4-8-8-4 UP Big Boy**

With Sound & Decoder \$299.99

- **4-6-6-4 Challenger**

With Sound & Decoder \$289.99

Union Pacific, Rio Grande, Clinchfield

- **2-8-0** \$89.99

ATSF, B&O, DRGW, PRR, SOU, V&T

- New!** • **F45 & FP45** \$74.99

(with sound & decoder \$144.99)

GN, ATSF, MILW

Precision Craft N

- **PRR 4-8-2 M1a/M1b**

with sound & decoder \$259.99

without sound & decoder \$179.99

- **PA/PB Set** ATSF, PRR

with sound & decoder \$214.99

without sound & decoder \$174.99

- **PA/PB/PA Set** DRGW, SP

with sound & decoder \$379.99

without sound & decoder \$214.99

- **E8A UP, IC, L&N, NYC, SOU**

with sound & decoder \$202.49

without sound & decoder \$114.99

Con-Cor N

- **2-10-2** \$254.99

PRR, B&LE, ACL, Eir

- **4-6-4** \$139.99-\$154.99

GN, NYC, DRGW, CB&Q, D&H, SOU

- **AeroTrain** \$339.99

GM, PRR, NYC, UP, ATSF

Centralia Car Shops N

- **Passenger Cars** \$33.29

IC, ATSF, CNW, NYC, PRR, C&O, DRGW

Proto N

- **GP18** \$71.99

80

34

BUILD A FOREST on a bluff, STEP BY STEP

Model Railroader
Brawny Athearn SD60M reviewed
October 2008 • www.ModelRailroader.com

SPECIAL TRACK SECTION

38

How to model main lines, sidings, and spurs

44, 46, 48

PLUS 3 more track how-to projects

78

Install a DCC sound decoder

54

HOW TO

- Build an N scale structure with odd corner angles
- Kitbash an SD10 diesel
- Operate your trains like the prototype

66

114

74

LANDMARK LAYOUT:
Bob Hayden's scenic Carrabasset & Dead River Ry.

On the cover: Paul Dolkos built this HO diorama to show how to realistically model the trackwork for main lines, sidings, and spurs. Paul Dolkos photo

6 Naming a railroad

From the Editor by Neil Besougloff

8 News & Products

The 2008 National Train Show report and more
by Steven Otte

22 Railway Post Office

Letters and e-mails from our readers

26 Prototype brush cutters

Information Desk by Jim Hediger

30 Putting a spin on projects

Workshop by Jim Hediger

34 Making a forest on a bluff

Scenery Step by Step by Cody Grivno

TRACK SPECIAL

38 Modeling different types of track

Make your main lines, sidings, and spurs realistic
by Paul Dolkos

44 Superelevating curves

Giving curves a realistic profile
by Andy Schnur

46 Improving Atlas code 83 flextrack

Trim down the spikes and add weathering
by Eric Brooman

48 4 weeks to a bigger layout

Week 2: Trackwork and wiring for the industrial district
by David Popp ▶ Online bonus ModelRailroader.com

54 Build walls with odd angles

Acute and obtuse corners for modular buildings
by Roger W. Holmes

58 Across the Alleghenies

The scenery on this HO scale layout speaks for itself
by Lou Sassi

66 Kitbash an SD10 diesel

Easy methods for modeling an unusual prototype
by Jim Volhard

71 Track Planning Contest rules

PROTOTYPE INFORMATION

72 Model a cattle guard

Plans for a one-evening scratchbuilding project
by Harold W. Russell

74 Landmark Layouts

Bob Hayden's elegant Carrabasset & Dead River
by Jim Kelly ▶ Online bonus ModelRailroader.com

78 Installing sound in an Athearn F unit

DCC Corner by Mike Polsgrove

80 Product Reviews

Athearn's all new Electro-Motive Division SD60M
Atlas O's EMD F2 . . . and more
▶ Online bonus ModelRailroader.com

91 Cartoon

94 Trackside Photos

100 Fixing brass steamers

Trains of Thought by Tony Koester

113 Index of Advertisers

114 Decisions, decisions

The Operators by Andy Sperandio

Coming next issue: Ever finish a layout? Daryl Kruse has. Next month we visit his completed N scale Union Pacific Rochelle Subdivision.

“I’m *smiling* because this passenger car will soon be available in *N scale*!”



See your dealer for more information.

The **PANORAMA** *Line*TM

SUPER-DETAILED *N SCALE* PASSENGER TRAINS BY RAPIDO TRAINS INC.

From the Editor

Naming a railroad

Neil Besougloff, Editor



Back in the spring, I wrote in this column about my son's N scale layout, the Generic & Vague RR. Its loose name tells you that my son and I were wishy-washy on the details of its Western theme.

Dennis Murphy, an avid *Model Railroader* reader, recently wrote me about that column and about how people name their railroads. Dennis' layout doesn't have a traditional name; he just calls his layout "Train World." (Yes, Dennis knows that there is train store with the same name.)

Dennis' comments about how people name their railroads got me to thinking about the layout names and nicknames we use here at *Model Railroader*.

Our freelanced staff club layout is the Milwaukee, Racine & Troy RR or MR&T, but we just call it "The Myrt" although we have to be mindful of this nickname. More than once we have referred to "Myrt" in front of visitors, who might easily think they are about to meet someone named Myrtle.

Adjacent to The Myrt is last winter's *Model Railroader* project layout, the Wisconsin & Southern Troy Branch. We call it the "Wissor" after the railroad's WSOR reporting marks, but we have to be careful about that nickname, too.

At home, senior editor Jim Hediger's layouts have always been the Ohio Southern RR and managing editor David Popp's New Haven RR layout is the

Naugatuck Valley RR. Both names reflect the places they model.

There was a time when David wasn't as prototypical. He and his dad once built a mining railroad called the Bankruptcy & Receiver.

We refer to executive editor Andy Sperandio's Santa Fe Cajon Pass layout as "Andy's layout." Two words are easier than four.

Some of the layouts don't have names. Staff editor Kent Johnson models the Canadian Pacific in British Columbia. I asked him what he called his layout, and he smiled and meekly said "ah, Kent Johnson's layout."

Naming your railroad is an individual choice. Sometimes it's easy and the name sticks, like Jim's long-lived Ohio Southern, sometimes the prototype you are modeling does it for you, as in Andy's case, and sometimes it's hard, as with Kent's British Columbia layout. But choosing a name does help give your model railroad a focus, a purpose, and a direction, something my son's Generic & Vague RR was originally lacking.

As Dennis wrote in his letter, "By giving your train layout a name you will have a direction to follow. But what if you find you don't much like that direction? Who cares! Just make a new name and go from there."

NEIL BESOUGLOFF

Contributing to *Model Railroader*

We welcome contributions from our readers, including articles, photographs, and prototype drawings. For detailed information on submitting material to MR, contact our editorial associate Eric Stelpflug at 262-796-8776, ext. 583, or mrmag@mrmag.com. *Model Railroader* assumes no responsibility for the safe return of unsolicited material. We assume unsolicited material is intended for publication by Kalmbach Publishing Co. unless otherwise noted. We assume letters, questions, news releases, and club news items are contributed gratis.

Dream it. Plan it. Build it.

Founder

A.C. Kalmbach 1910-1981

Editor
Executive Editor
Art Director
Managing Editor
Senior Editor
Associate Editor
Associate Editor
Associate Editor
Editorial Associate
Editorial Intern
Contributing Editor
Contributing Editor
Graphic Designer
Graphic Designer
Illustrator
Illustrator
Illustrator
Illustrator
Photography Supervisor
Photographer

Neil Besougloff
Andy Sperandio
Thomas G. Danneman
David A. Popp
Jim Hediger
Dana Kawala
Cody Grivno
Kent Johnson
Steven Otte
Eric Stelpflug
Maria Novotny
Tony Koester
Lionel Strang
Drew Halverson
Craig Schneider
Rick Johnson
Jay W. Smith
Theo Cobb
Roan Kelly
Kellie Jaeger
William Zuback
Jim Forbes

Publisher

Terry D. Thompson

CELEBRATING 75 YEARS
KALMBACH PUBLISHING CO. SINCE 1934

Kalmbach Publishing Co.

President
Executive Vice President
VP, Editorial
VP, Advertising
VP, Marketing
Corporate Art Director
Managing Art Director
Advertising Director
Ad Sales Manager
Ad Sales Representative
Ad Services Manager
Ad Services Representative
Production Manager
Production Coordinator
Corporate Circulation Director
Group Circulation Manager
Circulation Specialist
Circulation Coordinator
Single Copy Sales Director

Gerald B. Boettcher
Charles R. Croft
Kevin P. Keefe
Scott Stollberg
Daniel R. Lance
Maureen M. Schimmel
Mike Soliday
Scott Bong
Scott Redmond
Martha Stanczak
Sara Everts
Amanda Finch
Annette Wall
Cindy Barder
Michael Barbee
Catherine Daniels
Kristin Johnson
Maggie Sketch
Jerry Burstein

Editorial offices

Phone: 262-796-8776
Fax: 262-796-1142
E-mail: mrmag@mrmag.com
Web site: www.modelrailroader.com

Advertising

Advertising inquiries: 888-558-1544, ex. 643
Fax: 262-796-0126
Advertising e-mail: adsales@mrmag.com

Selling *Model Railroader* magazine or products in your store:

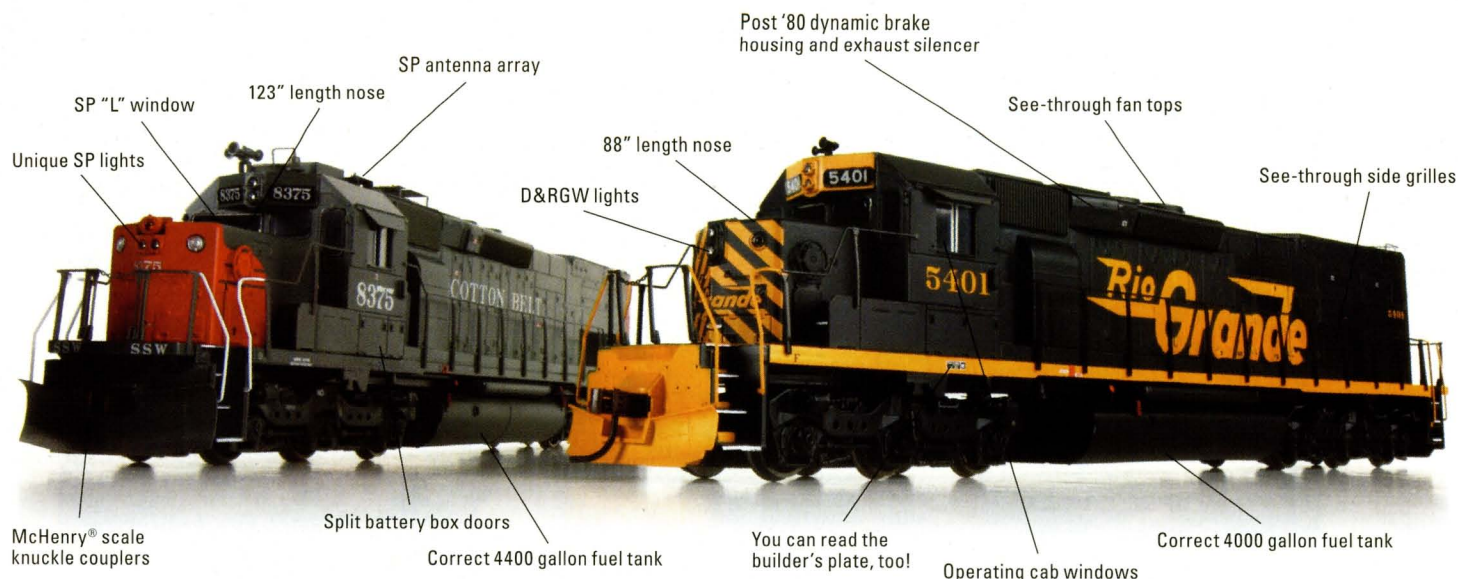
Phone: 800-558-1544, ex. 818
Outside U.S. and Canada: 262-796-8776, ex. 818
Fax: 262-798-6592
E-mail: tss@kalmbach.com
Web site: www.Retailers.Kalmbach.com

Customer Sales and Service

Phone: 800-533-6644
(Weekdays 8:30 a.m. to 5:00 p.m. CT)
Outside U.S. and Canada: 262-796-8776
Fax: 262-796-1615
E-mail: customerservice@kalmbach.com

SUBSCRIPTION RATE: U.S.: 1 year \$42.95; 2 years \$77.95; 3 years \$107.95. Canadian: 1 year \$52.95; 2 years \$97.95; 3 years \$137.95. Canadian price includes additional postage and GST, payable in U.S. funds. All other international subscriptions: 1 year \$62.95; 2 years \$117.95; 3 years \$167.95. International price includes additional postage, payable in U.S. funds drawn on a U.S. bank. BN 12271 3209 RT. Expedited delivery available for additional \$40 domestic first class, Canadian air; \$75 international air. © 2008, Kalmbach Publishing Co. Title registered as trademark. All rights reserved. Periodicals postage paid at Waukesha, Wis., and additional offices. Canadian second-class postal permit no. 9507. Microfilms of *Model Railroader* are available from ProQuest Information and Learning, 800-521-0600; <http://proquest.com>.





A New Take on an Old Favorite

Few locomotives have captured the attention of railroad buffs as strongly as the SD40T-2 has. Due to its novel carbody design, the EMD "tunnel motor" is naturally suited for a state-of-the-art model from Athearn.

Accurately rendered with distinctive prototypical details, Athearn's Ready To Roll® SD40T-2 is a startling showcase of important features that looks terrific on

any modeler's HO pike: different nose lengths depending on prototype, see-through side grilles and fan tops, separate wire grab irons, scale handrails, MicroBulb headlights, DCC Quick Plug technology and more. And the performance is every bit equal to the stunning appearance.

Ask about them today at your favorite train retailer, or go to www.Athearn.com for more details.



AVAILABLE MODELS

95117* D&RGW #5401 88" nose, post-1980 Dynamic Brakes
 95118* D&RGW #5398 88" nose, post 1980 Dynamic Brakes
 95119* D&RGW #5409 88" nose, post 1980 Dynamic Brakes
 95120 KCS #6101, 123" nose
 95121 KCS #6102, 88" nose
 95122 KCS #6106, 123" nose

HO SD40T-2, MSRP \$99.98

95123* Southern Pacific #8306 116" nose
 95124* Southern Pacific #8351 116" nose
 95125* Southern Pacific #8353 116" nose
 95126* SSW Cotton Belt #8375 123" nose
 95127* SSW Cotton Belt #8323 123" nose
 95128* SSW Cotton Belt #8373 123" nose



News & Products

**National
Train Show
special!**



Model train fans check out modular railroad displays and the booths of manufacturers and vendors at the 2008 National Train Show in Anaheim, Calif. The show,

held in conjunction with the National Model Railroad Association's national convention, brought thousands of hobbyists to the Anaheim Convention Center.

Small scales are big story at Anaheim

At the National Train Show in Anaheim, Calif., in July, the biggest buzz was all about the smaller scales.

Steam-era N scale modelers can look forward to a Southern Pacific Cab-Forward from InterMountain

Railway Co. (see page 12) and a class Y3 2-8-8-2 Mallet by Wm. K. Walther's Inc. As for diesels, Kato USA plans a run of Electro-Motive Division SD70ACe's in Union Pacific heritage schemes, and Atlas is unveiling an EMD GP15-1. Athearn, Rapido Trains, Micro-Trains Line Co., Wheels of Time, TrainCat Model Sales, DeLuxe Innovations,

and others also expanded N modelers' rolling stock options.

In Z scale, Aspen Model Inc. showed off its new all-brass Ten-Wheeler, while Micro-Trains Line Co. unveiled a preproduction model of its EMD SD40-2 diesel. (See pages 11 and 14, respectively.)

For the big picture, see our show report at ModelRailroader.com.

Highlighted in this issue

- 10** Athearn HO Union Pacific gas-turbine locomotive
- 10** HO Electro-Motive Division GP40-2 diesel from Atlas
- 11** 1:20.3-proportion wood caboose by Bachmann
- 12** Wm. K. Walther's Inc. HO Fairbanks-Morse H-10-44
- 16** List of manufacturers in News & Products

Rapido Trains entering N scale market

Rapido Trains, a manufacturer of passenger cars, train sets, and accessories in HO scale, is jumping into the N scale game with its "Panorama Line" of passenger cars.

The first cars in the series, a lightweight coach and a deluxe sleeper, will be offered decorated for Amtrak, Canadian National, Great Northern, New York Central, Pennsylvania, Southern Pacific, Union Pacific, and a half-dozen

more railroads, as well as undecorated. They will feature detailed underbodies and interiors, diaphragms with etched-brass gates, and scale metal wheelsets. The cars sell for \$47.95 each and will be available in early 2009.

The company is also offering both its "Easy-Peasy" battery-powered car interior lighting sets and two varieties of passenger-car trucks in N scale.

Steven Otte

Athearn announces commemorative products for MR's 75th anniversary

Two HO scale diesel locomotives, a hopper car, a gondola, and a delivery truck in both HO and N scales are being offered by Athearn Trains to commemorate *Model Railroader* magazine's 75th anniversary. The models will be decorated for the Milwaukee, Racine & Troy, the magazine's freelanced HO scale club layout.

Athearn is offering an Electro-Motive Division SD40-2 locomotive decorated in dark blue livery, with the MR&T herald and *Model Railroader*'s 75th anniversary logo. The HO scale direct-current engine, which is equipped with a five-pole skew-wound motor with flywheels, acetal handrails, and McHenry magnetic knuckle couplers, will sell for \$99.98.

Also being offered in HO scale is a Santa Fe-rebuilt CF7 diesel decorated for the Troy & Northern, a former freelanced branch line of the MR&T layout. (A series of articles on converting the former Troy & Northern into the Wisconsin & Southern was published in MR's January-April 2008 issues.) The Troy & Northern CF7 is painted in a Milwaukee Road-like gray-and-orange paint scheme and carries a retail price of \$89.98.

Two freight cars decorated for the MR&T will also be available. The two-bay rib-side covered hopper sells for \$24.98 in HO scale and \$19.98 in N. An HO 65-foot mill gondola will cost \$19.98; the N version will sell for \$15.98. The HO scale cars will feature metal wheelsets; both have McHenry scale magnetic knuckle couplers.

The final item is a box van, also bearing the MR&T herald. The HO scale Ford F-850 truck will sell for \$19.98; the N scale version, a Ford "C" cab-over model, costs \$12.98.

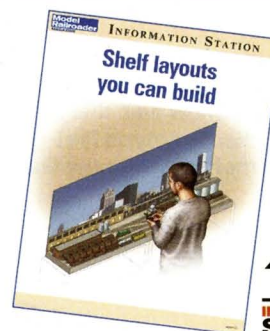
Athearn says the models will be available in winter 2008.

Now on www.ModelRailroader.com

New from the Information Station

Shelf layouts you can build

There's always room for a model railroad even if the only extra space you have is the top of a bookcase. This new download features six articles and 11 track plans from *Model Railroader* and *Model Railroad Planning*.



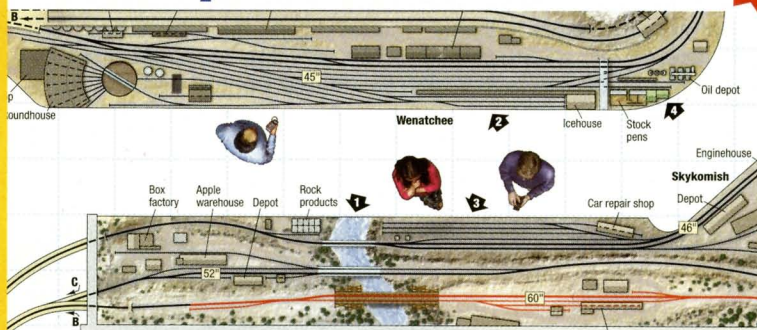
Online forums

Interact with fellow model railroaders on all aspects of this great hobby, and check out the new DCC forum!

FREE e-mail newsletters

Sign up on the Web and each week you'll receive the latest hobby news, links to online articles, and more!

Track plan database



Search our online archive of more than 440 plans by scale, size, and type. Subscribers can download a PDF of any plan for free.

New video miniseries

Four weeks to a bigger layout

Managing editor David Popp describes building the Waterbury Industrial District.



**National
Train Show
special!**



HO scale General Electric 4,500-hp gas-electric turbine locomotive with fuel tender.

Athearn Trains' biggest announcement at this year's National Train Show was this preproduction model of a Union Pacific-prototype first-generation gas-turbine locomotive. When the Genesis Series

locomotive is available in early 2009, it will come as a direct-current model or with Digital Command Control and sound. Prices for the ready-to-run model are yet to be announced.



HO scale Electro-Motive Division GP40-2 diesel locomotive.

Atlas Model Railroad Co. kept the production of this Master Line model under wraps until the National Train Show opened on July 18. In addition to the Chessie System model shown, the locomotive will come decorated in six other road names. It will be available either as a direct-current model or with Digital Command Control and QSI sound. The DC version will come with an 8-pin DCC plug and cost \$149.95; with DCC and sound, the locomotive will sell for \$239.95.

HO scale locomotives

General Electric 45-tonner diesel switch engine. Bethlehem Steel (yellow and black), plus four unlettered paint schemes: yellow with black safety stripes, black, red, and green. Digital Command Control, die-cast metal body shell, and E-Z Mate II magnetic knuckle couplers. Price to be announced. Spring 2009. Ready-to-run. Spectrum series. Bachmann

Baldwin VO-1000 diesel locomotive. Bethlehem Steel (Patapsco & Back Rivers RR reporting marks), Great Northern, Lehigh Valley, Pacific Electric (electrified version with trolley poles), Southern Pacific (electrified with trolley poles, one road number), and Western Pacific. Two numbers available per road name unless noted. To be offered as direct-current model or with Digital Command Control and sound. Prices to be announced. Winter 2008. Bowser

Electro-Motive Division MP15DC diesel locomotive.

Amtrak; Atchison, Topeka & Santa Fe (silver warbonnet or blue freight scheme); Burlington Northern; Chessie System (Baltimore & Ohio reporting marks); Chicago, Burlington & Quincy; Conrail; Illinois Central; Missouri Pacific; Norfolk Southern; Southern Pacific (bloody nose scheme; speed lettering or Roman lettering); Union Pacific; and Wisconsin Central. Also available undecorated. Dual-mode Digital Command Control decoder, dual flywheels, and Kadee magnetic knuckle couplers. \$99.98. Ready-to-run. Con-Cor International



HO scale New York Central 4-8-2 Mohawk steam locomotive.

MTH Electric Trains took the wraps off its newest steam locomotive at Anaheim. The model, equipped with Digital Command Control and MTH's own Digital Command System, comes with a sound system and smoke generator synchronized to the wheel rotation. It has a five-pole skew-wound motor with dual flywheels and is available in multiple versions. The ready-to-run locomotive sells for \$449.95.

H0 scale passenger cars

Amtrak Superliner passenger cars. Diner, sleeper, coach-baggage, and lounge. Availability dates and prices to be announced. Kato USA

85-foot Pullman Palace passenger cars. Great Northern (*Oriental Limited*), Union Pacific (*Overland Limited*), Pennsylvania (*Broadway Limited*), and Southern (*Crescent Limited*). Combine, diner, sleeper (two numbers available), and observation car. Metal RP-25 contour wheels, wire grab irons and truss rods, and body-mounted McHenry magnetic knuckle couplers. \$24.98. January 2009. Ready-to-run. Roundhouse

H0 scale freight cars



Factory-weathered 30-foot narrow gauge wood flatcar.

Denver & Rio Grande Western (four car numbers available) and Rio Grande Southern (one number). Also available painted but unlettered. Archbar trucks, blackened metal wheels, and Kadee no. 714 magnetic knuckle couplers. \$39.95. Fall 2008. Blackstone Models

Pennsylvania RR X26c-type rebuilt United States Railway Administration boxcar.

Youngstown doors and PRR decals, Superior doors and PRR decals, or Youngstown doors and Detroit, Toledo & Ironton decals. One-piece resin body, waterslide decals, and Tichy Train Group details. \$41.99. Add \$6.50 shipping for orders under \$85, \$12 shipping for orders between \$85 and \$150, free shipping for orders over \$150. Pennsylvania residents add 6 percent sales tax. Funaro & Camerlengo

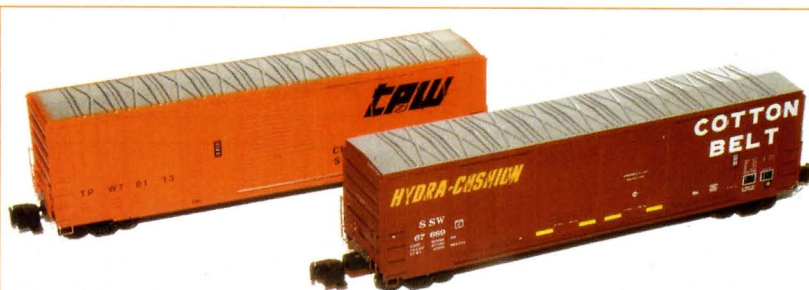


Southern Pacific B-50-2 boxcar with Van Dorn ends. Cast-urethane kit. Includes decals and safety gear (ladders, stirrups, and running

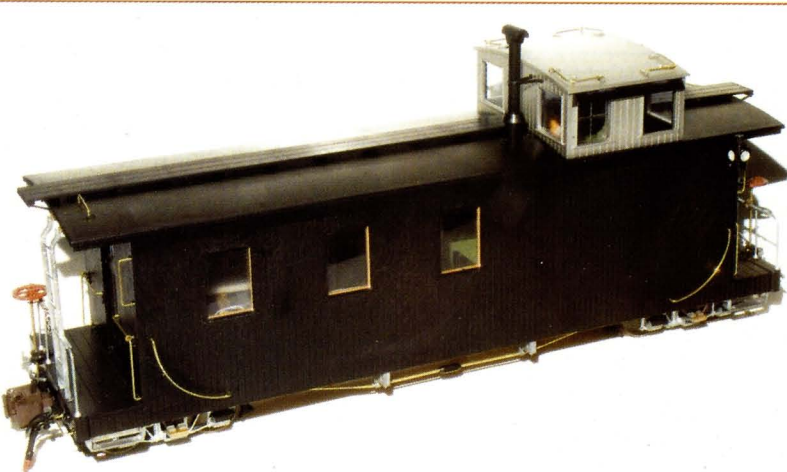
Continued on page 14



Z scale 4-6-0 Ten-Wheeler steam locomotive. Fans of the small scales had plenty to see at the National Train Show, including this old-time brass locomotive from Aspen Model Inc. Available either as a kit or ready-to-run, the model comes with a Faulkauber motor and Micro-Trains couplers. The kit version retails for \$213.76, while a painted, ready-to-run model costs \$805.76.



S scale single- and double-door FMC boxcars. Des Plaines Hobbies unveiled these 50-foot steel boxcars at Anaheim. Pictured are a Toledo, Peoria & Western 5,347-cubic-foot-capacity single-door boxcar, at left, and a Cotton Belt 5,283-cubic-foot-capacity double-door boxcar. Both are available in multiple road names, with four car numbers apiece. The ready-to-run cars come with American Flyer-compatible wheels and couplers and retail for \$44.98 each.



1:20.3-proportion Rio Grande caboose. Bachmann unveiled this preproduction prototype of a large-scale wood caboose with detailed interior and working marker lights. The model will be available in November, decorated for the Denver & Rio Grande Western, Rio Grande Southern (with round herald or "Flying Grande" lettering), and painted but unlettered (oxide brown or oxide red). The ready-to-run caboose, part of Bachmann's Spectrum line, will sell for \$275.

What's on everybody's mind? The Economy? Oil? No its...



NMRA HARTFORD NATIONAL 2009
JULY 5-11 • HN2009.ORG

New Haven Society of Model Engineers, Inc.

2008 TRAIN SHOW

Operating Layouts & Model Exhibits

Sunday October 5th, 2008
9:00 - 3:00

Durham Fair Grounds - Commercial Building
Route 17, Durham CT

*Featuring the New Haven Society of
Model Engineer's Operating Brass O Scale
Model Scherzer Rolling Lift Bridge.*

Adults \$6.00 • Seniors \$5.00 (62+)
Children 5-12 \$1.00 • Under 5 Free

FREE PARKING *Wheelchair Accessible*

For more information call (203) 269-4940

Dealers Information: Dealers admitted for Saturday setup from
1 PM - 6 PM, Electrical hookup included. 8 foot tables at \$25 a piece.

Make checks payable to:
NHSME - P.O. Box 661 - Meriden, CT 06451.
Include name, address, phone, # of tables and tax id #.

FRUSTRATED Planning your next layout?

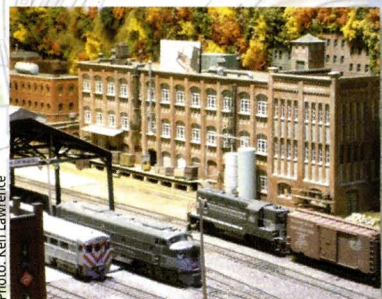


Photo: Ken Lawrence

Do you have the space for a new layout, and no time to build it? RailDreams® can design and build the layout of your dreams in any scale. Isn't it time to have the layout you always wanted?

For more information contact:
Richard E. Taylor MMR, richard@raildreams.com

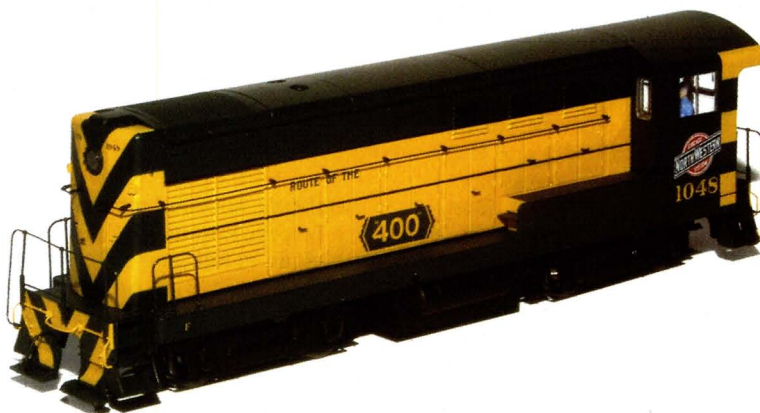
RailDreams
www.raildreams.com
PO Box 125
Lake Linden, MI 49945
906-296-0462 Fax 906-296-0862

News&Products

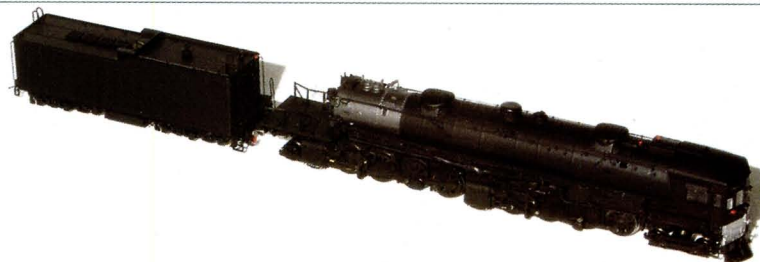
**National
Train Show
special!**



Brass N scale car kits. TrainCat Model Sales expanded its line of rolling stock kits with these announcements: a Southern Pacific C-30-6 type bay-window caboose, \$46.50; a Southern Pacific C-40-3 type cupola caboose, \$44.50; an American Car & Foundry chlorine tank flatcar, \$34.95; and a Denver & Rio Grande Western narrow gauge stockcar, \$38.50. Trucks and couplers are not included.



HO scale Fairbanks-Morse H-10-44 diesel locomotive. Wm. K. Walthers Inc. showed off its new model of Fairbanks-Morse's well-known yard switcher. The Proto 2000 model is available decorated for eight railroads, including the Chicago & North Western model seen here, plus undecorated. It's powered by a five-pole skew-wound motor with flywheels and is available as a direct-current model for \$129.98 or with DCC and QSI sound for \$229.98.



N scale Southern Pacific AC-12 steam locomotive. Inter-Mountain Railway Co. exhibited a preproduction model of its new N scale AC-12 Cab-Forward locomotive at the National Train Show. The model will be available this fall in four road numbers, plus painted but unlettered. The ready-to-run model will sell for \$329.95.

DOES YOUR CIRCUS FLAT CAR LOOK EMPTY?



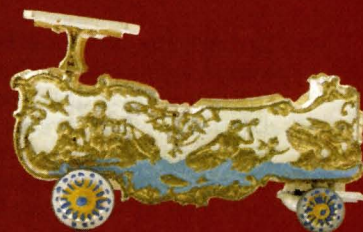
NOW YOU CAN LOAD IT WITH THE ACTUAL WAGONS ON THE TRAIN!



INTRODUCING THE GREAT AMERICAN CIRCUS WAGON SUBSCRIPTION PLAN!

In late 1989, Walthers introduced an HO gauge version of the train to the model railroad industry. Today, Sparkling Star Models is proud to announce the introduction of a subscription series of the exact wagons on that train. These highly detailed cast wagons are offered to complete your Great American Circus train exactly as it looked traveling the rails through the Wisconsin countryside. Easy to build and complete just as they were and are today at the Circus World Museum in Baraboo, Wisconsin. You too can be the proud owner of your own circus whether on the rails or on your own circus lot on your layout, or proudly displayed in your home or club. And the best news is Sparkling Star Models is producing these collectibles in HO, N, and Z scales by subscription. You will receive approximately one model per month. For those saying, "I don't have the train," it will be made available by us in all three scales, HO, N, and Z. Both types of flat cars (Mt. Vernon and Warren 70 foot in length) are available in N & Z and soon in HO. "But I build in O or G scale." Not to worry, many of the unique Circus Wagons are available in these scales. You will be able to order wagons on an individual basis.

The first shipment of subscription plan wagons will be December 10, 2008.



The first wagon to be released will be the Swan Bandwagon.



Quality models, figures and more available in scales from Z to G.

SIGN UP TODAY AT SPARKLINGSTARMODELS.COM

SPARKLING STAR MODELS

9525 BURLINGTON PLACE · BOCA RATON, FL 33434 · 561.470.1250

**National
Train Show
special!**

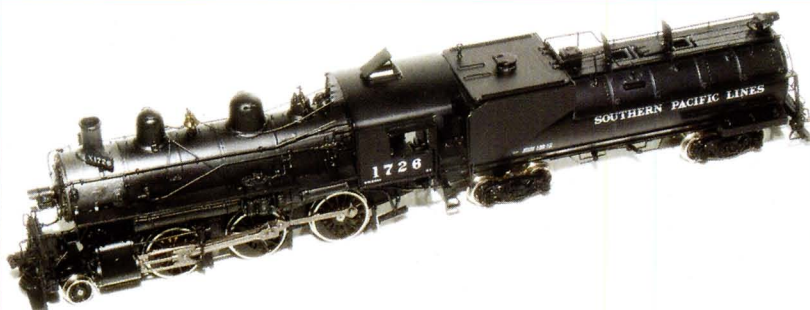


Z scale Electro-Motive Division SD40-2 diesel locomotive. Micro-Trains Line Co. showed off a preproduction model of its latest Z scale diesel at Anaheim. Though road names and price were yet to be announced, Micro-Trains said the locomotive will come with a Maxon coreless motor with dual flywheels, separate handrails, and Magne-Matic magnetic knuckle couplers. The first versions of the ready-to-run model will be available in early 2009.



86-foot wood Howe truss bridges.

These wood craftsman kits with phosphor-bronze bracing wires and cast-plastic detail parts are the latest offering from Hunterline. To complement Hunterline's previously offered HO scale version, these through-truss bridge kits are now being offered in S scale (shown, also suitable for On2½) for \$110, O scale (\$150) and N scale (\$55).



HO scale Southern Pacific 2-6-0 Mogul steam locomotive.

Sunset Models rolled out another HO scale brass locomotive with this ready-to-run engine. The model comes with Digital Command Control and QSI sound, a five-pole skew-wound motor with flywheels, and Kadee magnetic knuckle couplers. It sells for \$699.95.

Continued from page 11

boards) for both as-built and post-refit styles. Trucks and couplers not included. \$35. Westerfield

HO scale structures

Orange Vista Packing House.

Die-cut mat board kit. One-piece roof. Price to be announced. Alpine Division Scale Models

Witzinger's Washboards. Laser-cut wood kit. Full-color signs, Tichy Train Group window castings, and laser-cut roofing material. \$49.95. Bar Mills Scale Model Works



Rail shops styrene structure kits. Railroad shops (shown), modular design, \$69.98. Engineering office, \$44.98. Car shop, \$47.98. Assembled and wired transfer table, \$329.98. Wm. K. Walther's Inc.

HO scale details & accessories

Kenworth work trucks. Tow truck, six paint schemes, \$24.98; cement mixer, five schemes, \$23.98; and dump truck, six schemes, \$23.98. Positionable details, full window glazing, and rolling vinyl tires. Athearn Trains

Assorted HO scale diesel detail parts. Late-era diesel speed recorder with cable, cast pewter, price to be announced. Window sun shade with tracks, etched brass, price TBA. Rear light cluster set for Southern Pacific Electro-Motive Division diesels, pewter, \$2.99. Snowplow for Southern Pacific General Electric locomotives, pewter, price TBA. Nathan P5 air horn, brass, price TBA. Details West

N scale train sets

Union Pacific M-10000 three-car train set. Union Pacific (brown and yellow) or painted silver but unlettered. Detailed and lighted interiors, eight-pin Digital Command Control plug, and reversing head and tail lights. Three-car set, \$429.98; additional Pullman coach (two car names available), \$139.98. Fall 2008. Ready-to-run. Con-Cor International

WHAT DO PIGS, GEESE AND APPLIANCES HAVE IN COMMON?



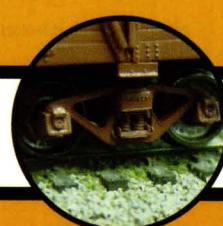
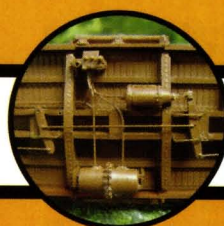
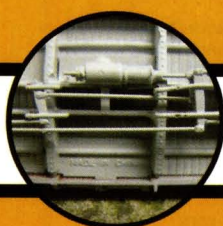
GOLD SERIES

When it comes to Canadian freight cars, no one does RTR like True Line Trains®. Announcing our newest projects, the CN and CP Fowler Stock cars and Box cars. These new from the ground up cars feature completely new tooling and details that will simply astound. Look for them soon at finer Hobby Shops.

Fowler Stock and Box cars features:

- AB or K brake system
- newly tooled chassis
- newly tooled SIMPLEX trucks
- newly tooled brake wheels
- newly tooled bolsters
- newly tooled doors
- newly tooled cut levers
- newly tooled air hoses
- newly tooled cross braces
- newly tooled supports
- and much, much more.

Available at finer
Hobby Shops around
the world.



True Line Trains Exclusively distributed in Canada by Canadian Hobbycraft Ltd. 140 Applewood Crescent, Concord, Ontario L4K 4E2
For More Info, Please Call (905) 738 - 6556 or email: tlt@hobbycraft.com www.hobbycraft.com/tlt Dealer Inquiries Welcome

model
EXCLUSIVE COLLECTION
power
MINIS

1:87 PRECISION DIECAST CARS



NO. 19393
Crown Victoria Taxi



CROWN VICTORIA

**FULLY PAINTED
RUBBERTIRES-ACCURATE WHEELS
PLASTIC STACKABLE DISPLAY BOX
SEPARATELY APPLIED DETAILS • FULL INTERIORS**



NO. 19399
Crown Victoria FL State Police



NO. 19394
Crown Victoria NYPD



NO. 19395
Crown Victoria NYS Police



NO. 19396
Crown Victoria CA Highway Patrol



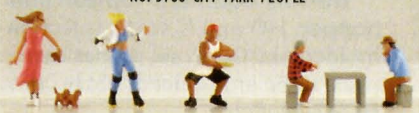
NO. 19397
Crown Victoria TX State Police



NO. 19402
Crown Victoria County Sheriff

ALL NEW HAND PAINTED SCALE FIGURES- AVAILABLE IN HO, N AND O SCALE

NO. 5786 CITY PARK PEOPLE



NO. 5788 CRIME SCENES



NO. 5789 PEOPLE EATING



NO. 5785 POSTAL WORKERS



**OVER 300
NEW FIGURES!**

NO. 5787 HOMELESS PEOPLE



model
power

MODEL POWER • 180 SMITH STREET, FARMINGDALE, NY 11735 • TELE: 631-694-7022 • FAX: 631-694-7133

visit us on the web at www.modelpower.com • info@modelpower.com

©2008 MODEL POWER • ALL RIGHTS RESERVED • MODEL POWER IS A REGISTERED TRADEMARK OF ATT MODEL PRODUCTS, INC.

**National
Train Show
special!**

N scale locomotives
Electro-Motive Division
SD70ACe diesel locomotive. Chicago & North Western, Denver & Rio Grande Western, Missouri-Kansas-Texas, Missouri

Pacific, Southern Pacific, Union Pacific, and Western Pacific. Price to be announced. Kato USA Inc.

N scale freight cars
Gunderson Maxi-Stack IV
three-unit articulated well car.

TTX (two numbers available). Die-cast metal bodies, etched-metal running boards, and Micro-Trains magnetic knuckle couplers. \$69.95. Ready-to-run. DeLuxe Innovations

▶▶ Manufacturer listings

Alpine Division Scale Models
P.O. Box 6
Artesia, CA 90702
562-860-6060

Aspen Model Inc.
305 J Aspen Business Ctr.
Aspen, CO 81611
970-544-8270
www.aspenmodel.com

Atlas Model Railroad Co.
378 Florence Ave.
Hillside, NJ 07205
908-687-0880
www.atlasrr.com

Atlas O
378 Florence Ave.
Hillside, NJ 07205
908-687-9590
www.atlaso.com

Athearn Trains/Roundhouse
1550 Glenn Curtiss St.
Carson, CA 90746
310-763-7140
www.athearn.com
roundhousetrains.com

Bachmann
1400 E. Erie Ave.
Philadelphia, PA 19124
215-533-1600
www.bachmanntrains.com

Bar Mills Scale Model Works
P.O. Box 609
Bar Mills, ME 04004
207-929-3400
www.barmillmodels.com

Blackstone Models
210 Rock Point Drive
Durango, CO 81301
970-259-0690
blackstonemodels.com

BLMA Models
16623 Pear Blossom Ct.
Whittier, CA 90603
562-712-7085
www.blmamodels.com

Bowser
P.O. Box 322
Montoursville, PA 17754
570-368-2379
www.bowser-trains.com

Con-Cor International
8101 E. Research Ct.
Tucson, AZ 85710
520-721-8939
www.all-railroads.com

CVP Products
P.O. Box 835772
Richardson, TX 75083
972-422-2169
www.cvpusa.com

DeLuxe Innovations
9 Whippany Rd., Unit 10
Whippany, NJ 07981
973-887-3919
deluxeinnovations.com

Des Plaines Hobbies
1468 Lee St.
Des Plaines, IL 60018
847-297-2118
desplaineshobbies.com

Details West
P.O. Box 4852
San Dimas, CA 91773
909-394-5921
www.detailswest.com

ESU LLC
815 60th Ave. SE
St. Cloud, MN 56304
320-202-0865
www.loksound.com

Funaro & Camerlengo
10 Funaro Court
Honesdale, PA 18431
570-224-4989
www.fandckits.com

Hunterline
1072 Riverbank Drive
Cambridge, ON, N3H 4R6
Canada
519-653-4174
www.hunterline.com

InterMountain Railway Co.
P.O. Box 839
Longmont, CO 80502
303-772-1901
www.intermountain-railway.com

Kadee Quality Products
673 Ave. C
White City, OR 97503
541-826-3883
www.kadee.com

Kato USA Inc.
100 Remington Rd.
Schaumburg, IL 60173
847-781-9500
www.katousa.com

Lenz Agency of North America
P.O. Box 143
Chelmsford, MA 01824
978-250-1494
www.lenz.com

Micro-Trains Line Co.
P.O. Box 1200
Talent, OR 97540
541-535-1755
www.micro-trains.com

Model Rectifier Corp.
80 Newfield Ave.
Edison, NJ 08837
732-225-2100
www.modelrectifier.com

MTH Electric Trains
7020 Columbia Gateway Dr.
Columbia, MD 21046
410-381-2580
www.mthottrains.com

Rail Scale Miniatures
19748 Wildwood Crescent N.
Pitt Meadows, BC, V3Y 1M4
Canada
604-465-4469
railscaleminiatures.com

Rapido Trains
140 Applewood Crescent
Concord, ON, L4K 4E2
Canada
905-738-6445
www.rapidotrains.com

Searails
P.O. Box 366
Valley Ford, CA 94972
800-929-3361
www.searails.com

SoundTraxx
210 Rock Point Dr.
Durango, CO 81301
970-259-0690
www.soundtraxx.com

Sunset Models
37 S. Fourth Street
Campbell, CA 95008
408-866-1727
www.3rdrail.com

TrainCat Model Sales
3709 Heron Ridge Lane
Weston, FL 33331
www.traincat2.com

Train Control Systems
P.O. Box 341
Blooming Glen, PA 18911
215-453-9145
www.tcsdcc.com

Westerfield
53 River Lane
Crossville, TN 38555
931-484-7233
www.westerfield.biz

Wm. K. Walther's Inc.
P.O. Box 3039
Milwaukee, WI 53201
414-527-0770
www.walthers.com

N scale structures

Assorted styrene structures.
Armco steel commercial building; Injection-molded plastic. Office or workshop/garage. Kit, \$9.95; factory assembled and painted blue or tan, \$12.95. Detail kit for assembled building sold separately. Sand tower and drying house kit: \$24.95. DeLuxe Innovations

O scale locomotives

United States Railroad Administration 0-6-0 steam locomotive. Baltimore & Ohio, Chicago & North Western, New York Central, and Rock Island (two numbers each), plus unlettered. Railroad-specific details, smoke unit, and magnetic knuckle couplers. Direct-current model with eight-pin Digital Command Control plug, \$549; DCC with QSI sound, \$649. Ready-to-run. Atlas O

Z scale details and accessories

Mining and construction equipment. Resin vehicles made by computerized rapid prototyping. Unpainted. Front-end loader, \$30. Steam shovel, \$60. Steam crane, \$80. Dump truck, \$40. Drag line, \$90. Scraper, \$60. Searails

Large scale details and accessories

Radio-controlled remote uncoupling system. Handheld remote operates couplers and track turnouts. Price and availability date to be announced. Kadee Quality Products Co.

Multiple-scale freight cars

Norfolk Southern TopGon coal hopper. HO and N scale. Injection-molded plastic. Road names and price to be announced. Early 2009. BLMA Models

Electronics and controls

AirWire Linker and Activator wireless Digital Command Control accessory decoder components. Stand-alone controllers designed for use with company's AirWire wireless Digital Command Control throttles. Linker unit receives

commands from throttles and sends them to up to 99 Activator modules, which can control up to four turnouts, lights, or other accessories each. Battery powered; pulse, continuous, or combination outputs. Linker: \$199. Activator: \$119 in enclosure, \$99 for circuit board only. CVP Products

ECoS Control Radio Digital Command Control throttle.

Wireless cab for ECoS DCC system. Two-way 2.4GHz radio communication, liquid crystal digital display, thumb joystick, ability to control up to 100 locomotives. Price to be announced. Fall 2008. ESU LLC

Prodigy computer interface. Allows modeler to run an MRC Prodigy-controlled layout from a Windows-based personal computer. Wireless interface; works with all NMRA-compatible Digital Command Control decoders. Price to be announced. Fall/winter 2008. Model Rectifier Corp.



TSU-1000 Tsunami Digital Command Control sound decoder. For HO scale locomotives powered by first-generation Electro-Motive Division 567 diesel engines. Back-electro-motive-force (EMF) control, 1-amp stall current, 16 air horns, and 14 sound effects. \$119. SoundTraxx

CN-GP Digital Command Control decoders. For older N scale Electro-Motive Division GP series locomotives. Split-board design. Eight-pin plug and directional golden-white light-emitting-diode lighting. \$38.95. Train Control Systems

Software

Software update for Lenz Digital Command Control systems. Version 3.6 update for LZV, LH90 and LH100 systems will add programming ability for functions F0 through F28, allow reading configuration variables (CVs) on the main, improve database support, and add other functions. Availability date, price, and terms to be announced. Lenz Agency of North America

Billboard Refrigerator Cars



Richard H. Hendrickson
and
Edward S. Kaminski

SIGNATURE PRESS

Excellent History!

Billboard Refrigerator Cars

A detailed presentation of hundreds of billboard reefers from the 1920s to 1937, plus a history of the era, by authorities Hendrickson and Kaminski. 440 photos, 224 pages.

Price: \$60

California residents add \$4.65 sales tax.

Free shipping, domestic individual orders (\$20 shipping, foreign orders)

Order direct: 11508 Green Rd., Wilton, CA 95693

• Visa & Mastercard orders: 1-800-305-7942 •

www.signaturepress.com • DEALER INQUIRIES INVITED
information on all our books and secure ordering at our web site

Division Point

the best brass models you've never heard of

**Arriving Soon: NP, SP&S Class Z-7,Z-8 4-6-6-4 Challengers
D&RGW, SP Kraus-Maffei ML4000**

**Just Announced: NP-SP&S-GN Z-6 4-6-6-4s
Omaha Road/C&NW E-3 "Super" Pacifics
GN R-1,R-2 2-8-8-2 Articulated**

**Underway: N&W Heavyweight Passenger & Business Cars
NYC/P&LE L-1a,b,c 4-8-2 "Mohawk"s
CPR P-2g,h,k 2-8-2 Mikados**

303-499-5909 www.divisionpoint.com orders@divisionpoint.com

Chopper II: Log More Cuts Cleaner-Quicker-Easier

- Replaceable cutting mat for continuing cleaner cuts.
- Rigid aluminum construction assures high accuracy & repeatability.
- Compact 7"x 7" size. Handle safety stop for safe operation.
- Mitres any angle, comes with 30°, 45° & 60° guides.
- Cuts styrene and wood strip materials up to 1/8" thick.
- See www.NWSL.com for latest product information or phone 206-932-1087.



NorthWest Short Line

P. O. Box 423, Seattle, Washington 98111-0423, USA
www.nwsl.com



Tool 69-4

BIG DISCOUNTS ON MODEL TRAINS AND ACCESSORIES

YOUR OVERALL PURCHASE WILL COST LESS WITH US!

Over 100,000
New Products In
All Scales From
Over 350
Manufacturers
ALL At Discount Prices

***Lowcost Shipping**

**Service, Selection
And Courteous
Customer Service**

***Online Weekly and
Monthly Sales**

**Blue Ridge
Hobbies**
2327 N Pleasantburg Dr Greenville SC 29609
800-988-2125 / 864-255-4671
www.BlueRidgeHobbies.com

**End Of Summer Sale
SAVE UP TO
75% off***
on selected items

**You Can Shop Online
For The Lowest Prices
OR
Visit Our Retail Store
In Greenville, SC
Conveniently Located
Halfway Between
Atlanta and Charlotte**

WALTHERS Plantinum Dealer

***We Feature Athearn, MTH,
Atlas, Intermountain,
Broadway Limited and
plus many, many more!**

Shop At Our Retail Store Tuesday Thru Saurday OR Online 24/7 *See Website For Details

We Now Carry More of the Products you want.



Come experience the Factory Direct Trains difference:

- All items in stock & ready for shipment
- Preorder new items for FREE, no money down
- High quality photos: see what you're buying!
- Great product descriptions
- Easiest to use train website ever
- Order online or call us 24 hours a day
- Knowledgeable, caring staff
- \$6.95 Flat Rate Domestic Shipping
- Worldwide shipping no problem!
- Your satisfaction is our #1 goal

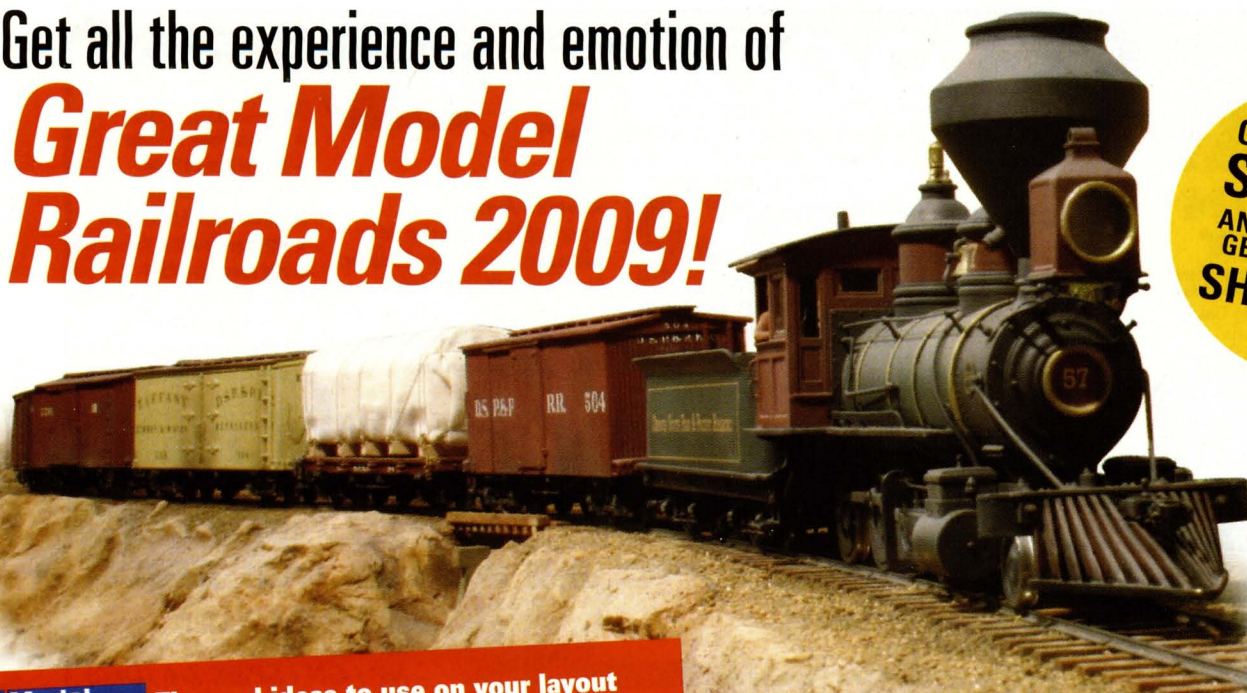


Joe Grubba, Owner
Factory Direct Trains

www.factorydirecttrains.com

Get all the experience and emotion of *Great Model Railroads 2009!*

Order now to
SAVE \$1
AND
GET **FREE**
SHIPPING!



Paul Dolkos

Model Railroader SPECIAL ISSUE Tips and ideas to use on your layout

GREAT Model Railroads 2009

Photos, stories, and track plans of
10 layout dreams come true
in HO, N, and O scales

Growling up the High Line
on the Feather River Route

Hoosier Line realism in N scale

Traction action in O scale

PLUS

Railroading in the Old Colony
Wild West days on the Denver & South Park
Mountain Subdivision in Virginia

Spectacular examples of successful HO, O, and N scale layouts abound in the pages of *Great Model Railroads 2009*. Beautiful photos, ideas, tips, and more aim to inspire you to build a great display of your own. First-hand accounts of model railroaders' accomplishments are presented with layouts such as:

- Lance Mindheim's N scale Monon
- Cliff Coutinho's Old Colony & South Shore in HO
- Tom Piccirillo's Somerset County Traction System in O scale
- And more

Great Model Railroads 2009
will arrive in late October 2008.

\$7.95 U.S./\$9.00 Can./For.

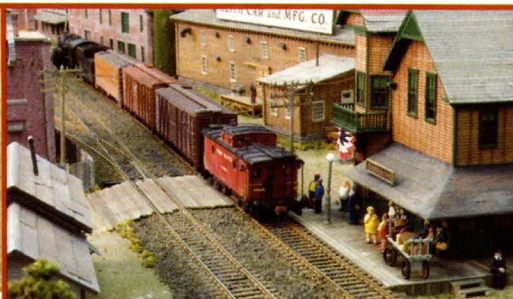
Order online at ModelRailroader.com/GMR09
or call 1-800-533-6644 Monday-Friday, 8:30 a.m. - 5:00 p.m. CST.

Outside the U.S. and Canada, call 262-796-8776, ext.661.

Please have your credit card ready.



Paul Dolkos



Lou Sassi



Paul Dolkos

SEE TONY'S AT

TRAIN FEST

West Allis, WI, Nov 8-9

- ★ QSI Upgrade Chips
- ★ Show Specials
- ★ Decoders Installed

- ★ FIRST in DCC Sales & Support
- ★ Installations and Loco Work
- ★ Club Demos & Discounts
- ★ We Guarantee Your Satisfaction



OOOPS!

They Didn't Use AutoThrow™

To err is human, to forgive isn't company policy!



AutoThrow™ is the exclusive patented feature that automatically throws your turnouts to avoid a disaster. AutoThrow™ is offered exclusively by the Hare and Wabbit stationary decoders from DCC Specialties!

DCC SPECIALTIES

Pinewood Plaza 10/08
57 River Rd, Box 1023
Essex Jct, VT 05452

info@TonysTrains.com
fax 802-878-5550

- ★ Discount Prices, All Scales
- ★ Digitrax Zephyr \$159.95
- ★ Sup E. Blider \$274.95, Radio \$439.95
- ★ Sup Chief \$349.95, Radio \$499.95
- ★ NCE PowerPro \$412.95, Radio \$569.95
- ★ NCE PowerCab \$149.95
- ★ Lenz Set-90 \$249.95, Set-100 \$329.95
- ★ Soundtraxx DSD-101LC \$51.95
- ★ HO Tsunami \$95.95 / Micro \$111.95

800-978-3472

INFO, QUESTIONS, CATALOGUE
TonysTrains.com



SUNSET MODELS - A CUT ABOVE

BRASS LOCOMOTIVES AT REASONABLE PRICES ARE BACK!

- FINE SCALE DETAIL IN LIFE-TIME BRASS
- FACTORY PAINTED TO PERFECTION
- QSI DC/DCC SYSTEM WITH SOUND INSTALLED
- SPRUNG DRIVERS IN MACHINED FRAMES
- HIGH QUALITY CANON MOTORS
- OUTSTANDING, FAST AND FRIENDLY SERVICE
- DEALER PRICING AVAILABLE

CALL YOUR DEALER OR 1-800-3RD-RAIL

WWW.SUNSETMODELS.COM

2008/2009 LINE UP

- SP M6/M9 2-6-0 (SEPT)
- NP / GN / SP&S Z-6 (DEC)
- CP T1A, TIC SELKIRK
- PRR P5 BOX CAB
- CB&Q O-5 #6325
- NYC EMPIRE STATE EXPRESS
- NYC /CUT P2 ELECTRIC
- PRR G5 4-6-0
- NSL ELECTROLINER (BRASS)



SUNSET MODELS INC.

37 South Fourth Street · Campbell, CA 95008 · 408-866-1727 · fax to 408-866-5674 · www.sunsetmodels.com

New N&O Scale Scenic Accents®

N Scale

Shootin' Hoops



One Man Crew



People on Benches



O Scale

Gone Fishing



Bicycle Buddies



Masonry Workers



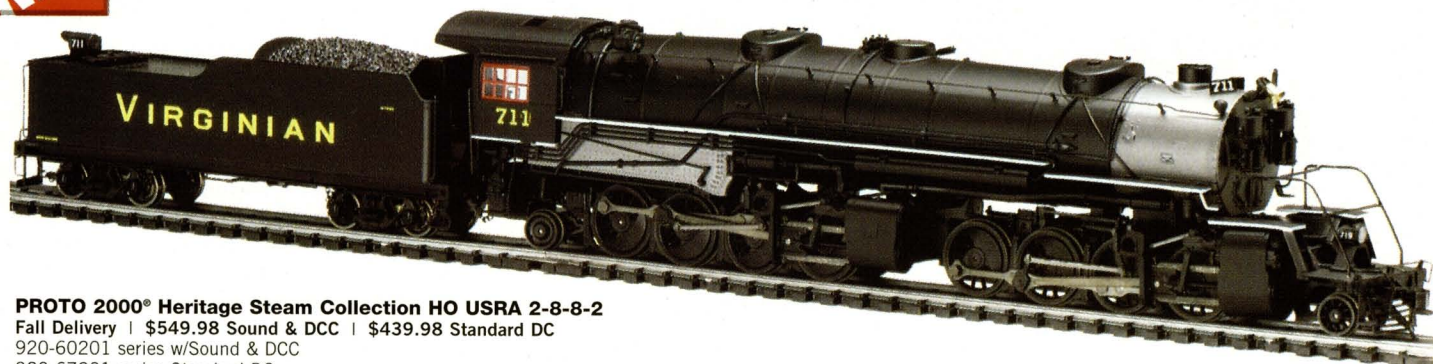
WOODLAND SCENICS® www.woodlandscenics.com

Purchase at your local hobby shop.

WALTHERS

MORE GREAT MODELS COMING THIS FALL!

NEW



PROTO 2000® Heritage Steam Collection HO USRA 2-8-8-2
 Fall Delivery | \$549.98 Sound & DCC | \$439.98 Standard DC
 920-60201 series w/Sound & DCC
 920-67201 series Standard DC

NEW



PROTO 1000™ HO R21/22 Subway 4-Car Set
 Fall Delivery | \$219.98
 920-31018 New York City Transit #7656 (Powered) and #7697, #7703 & #7728 (Unpowered)

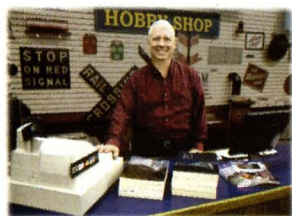
NEW



Platinum Line™ HO Pennsylvania N6b Cabin Cars
 Fall Delivery
 Single Car \$44.98 | Limited-Run 2-Pack \$84.98
 932-7651 Roman Lettering & Bars
 932-27651 2-Pack
 932-7652 Keystone at Top
 932-27652 2-Pack
 932-7653 Keystone in Middle
 932-27653 2-Pack

More product details available online at <http://www.walters.com/newoct01>

For more product information and to reserve these New Products:



See Your Local Hobby Dealer

- Friendly Service
- Great Selection
- Visit walters.com to find shops in your area



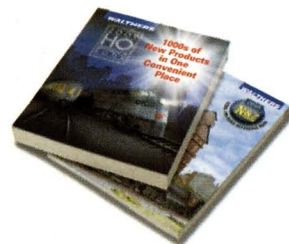
Visit walters.com

- New Product Info 24/7
- Instant Access to our Warehouse
- Product Locator™ to Find Items
- News, Information & Photos Updated Daily



Check out Walther's Flyer™ Monthly Sale Catalog

- Yours FREE — Pick up the latest edition at your local hobby shop, sign up at walters.com or call us at 1-800-4TRAINS (1-800-487-2467) to sign up for free Catalogs



See your 2009 Reference Books — Coming Soon

- Your Best Resource for All Current Model Railroad Product Info
- 1000s of New Products in One Place
- All-New Magic of Model Railroading Photos

Your Number One Resource For Model Railroad Product Information

©2008 Wm. K. Walther's, Inc. Photos show preproduction models, some details may vary.



Oversize loads require special handling that can add some interesting variety and realistic problems to your operating session. Jim Forbes photo

Special loads

I enjoyed the article on adapting flatcars for super-sized loads, and I thought I'd share some memories from several years ago when the power company I work for had to ship a transformer back to the factory for a rebuilding project.

We used a heavy duty FD-class flatcar, and it took about 10 work-days for a team of three welders and four helpers to make the necessary adaptations to fit the transformer. There were divots from previous loads that had to be altered, trimmed, or ground flat, and then we installed the mounting rig for our transformer.

When the transformer came back, it was on the same car. After we'd unloaded it, the last job the welding team did was to cut off the fittings they'd installed and knock the welds down to about $\frac{1}{2}$ " tall, making things easier for the next crew. It might be fun to try to model these previous load "scars" on the deck of one of these cars.

Mike Bell
Colstrip, Mont.

Meeting of the trains

I look forward to every issue of *Model Railroader* for both information and entertainment value. Tony Koester's Trains of Thought column is one of the features I read.

His article "Number 47 is by Cayuga" in the August issue didn't disappoint. It was interesting, informative, and fun to read. I did have one question, though.

Since No. 47 and No. 42 were scheduled second class trains, wouldn't it have been better practice for a scheduled meet to appear in the timetable, delaying 47's scheduled

departure time from Cayuga until after 42 was in the clear?

Les Beckett
Selma, N.C.

[Hi, Les! Good to hear from you, and thanks for the kind words.

When a meet was shown in the Nickel Plate timetable, that was simply an advisory and not a "hard meet." The superior train could keep hammering along if the inferior train had not shown up at the meeting point. Retired Nickel Plate engineer Don Daily told me that NKP practice was to help late trains (usually westbounds) by putting eastbound trains in the hole for them via train orders.

Bottom line: The timetable schedule required 47 to wait in the siding at Cayuga for 42, as 47 was on 42's time when it left Cayuga. Apparently, the crew overlooked that fact and proceeded, but I doubt they'll do so again! – Tony Koester]

A simple thanks

Thank you for the fine story and pictures of my Pennsy steam layout in the August issue. Credit for the fine detailing and weathering done on some of my locomotives pictured should be given to my friend Bob Malberti of Wayne, N.J. Bob has won numerous local and national awards for his excellent detailing and weathering of engines.

Glenn Nilsen
Jackson, N.J.

A new track plan

I've been revisiting and enjoying Steven Otte's article "Three track plans for one sheet of plywood," in the August 2008 MR. I appreciate that MR includes ideas for small

layouts on a regular basis. I especially enjoy the Indiana & Aurora RR track plan. I've built three small layouts but never thought of a way to design a true point-to-point operating scheme.

The I & A represents a significant design advancement for small layouts. On one sheet of plywood it cleverly includes a staging yard, point-to-point operation, a continuous run option, shallow profile industries, lots of switching opportunities, and a passing siding.

As Jim Hediger said on page 27, "Most of our track planning articles are offered as idea generators to get readers thinking . . ." The I & A track plan has certainly taken my thinking to new directions.

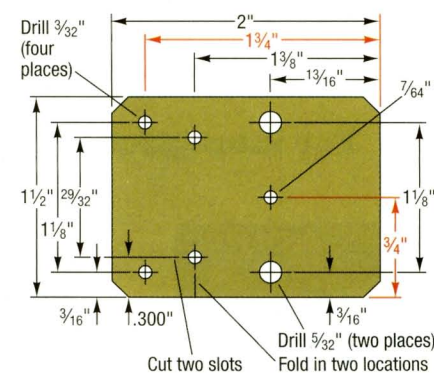
Drew Cannon
Indianola, Iowa

Corrections

Jack Spedden's trolley models pictured on page 45 in September's issue of *Model Railroader* are HO scale models and not O scale as indicated by the photo caption.

The drilling template for Thomas Hillebrant's turnout bracket on page 68 of the September issue contained two mislabeled pointer stops. The error was introduced by the MR staff and not the fault of the author. The corrections are shown below in red. – Ed.

Drilling template



Comments, suggestions, and additional information on MR articles and departments are welcome in this column. Every comment will be read, but not all can be printed or answered. Make your statement in 300 words or less, and send it to Railway Post Office, *Model Railroader* magazine, P.O. Box 1612, Waukesha, WI 53187, or e-mail rpo@mrmag.com. Please include your name, city, and state.

MTH MANTUA PRECISION CRAFT BROADWAY LIMITED BLUE LINE ATHEARN

ON SATURDAY, SEPTEMBER 13
10:00AM TO 6:00PM
MIKE WOLF
of MTH Electric Trains
will be at
TRAINLAND®

See NEW Products in HO-O-G Scales
plus watch a demonstration of the
REVOLUTIONARY NEW HO COUPLER
which allows you to uncouple MTH HO
engines anywhere at anytime on your layout.

\$\$ InStore Discounts All Day Long! \$\$

MTH #80-3107-1 ERIE 2-8-8-2 TRIPLEX
\$489.99

NEW! **SOUND** **SMOKE** **HOT!**

MTH #80-3114-1 4-8-4 GS-4
OR GS-6 **\$389.99**

NEW! **SOUND** **SMOKE** **HOT!**

#80-2001-1 SD-70 ACe HERITAGE SERIES NEW 229.99
#80-3101-1 PRR K-4, DIE-CAST, SOUND, SMOKE 299.99
#80-3123-1 NYC L3/L4 MOHAWK NEW 399.99
#80-6001 SP DAYLIGHT PASS. CARS NEW PRICES VARY
#80-98001 WOOD DECK FLAT CAR NEW 23.99
#80-98001 WOOD DECK FLAT CAR W/LOAD NEW 27.99

PRECISION CRAFT

Now Taking Orders

0225 GREAT NORTHERN S-2 4-8-4 314.99
0805 AC12 CAB FORWARD, Smoke/Die-Cast 534.99
0885 PRR 2-10-0 I-1 SA 304.99
1005 B&O 4-6-2 PACIFIC (PRESIDENTS) 269.99
1205 B-F 16 SHARK NOSE Starting At 189.99
2045 SD-7 219.99
2945 SP "Daylight" GS-4 4-8-4, Smoke/Die-Cast 349.99
3045 F-3's Starting At 289.99
3365 FA's Starting At 189.99
4185 GALLOPING GOOSE Starting At 189.99
5865 READING 4-8-4 T-1 309.99
7135 DB-BR01 369.99
8205 SW 1500 159.99
680 SP "DAYLIGHT" PASSENGER CARS CALL
1001 ANALOG CONTROL MODUL 29.99

MANTUA CLASSICS

HOT!

Now Taking Back Orders - DCC READY - ASSTD RDS

323001 4-6-2 CAMELBACK W/TENDER 64.99
340001 4-6-2 PACIFIC W/VANDY TENDER 94.99
345001 2-6-6-2 ARTICULATED LOGGER W/TENDER 99.99
349001 4-6-2 PACIFIC W/TENDER 94.99
351600 2-6-6-2T ARTICULATED LOGGER 89.99
389001 0-6-0 GOAT SWITCHER W/TENDER 54.99
393001 0-6-0 TANK SWITCHER 34.99

WE CARRY THE ENTIRE MANTUA LINE

RIVAROSS/HORNBY - DCC READY

NEW!

2006 C&O ALLEGHNEY SUPER SALE 275.00
2007 NYC HUDSON 159.99
2015 UP BIG BOY W/DCC & SOUND 124
2051 C&O ALLEGHNEY W/DCC & SOUND 369.99
6015 LOG CAR, 2-PACK 25.99
6902 RIO GRANDE 1920s 4-CAR PASSENGER SET 39.99

RIVAROSS #4036 3-PACK 60" HEAVYWEIGHT PASSENGER CARS SALE **\$79.99** **NEW!**
CNW & PRR

RAPIDO #107100 "OH, SO STEAMY" OPERATING STEAM GENERATOR CAR **SALE \$45.99** **NEW!**

MODEL POWER
#96500 0-4-0 SADDLE TANK WITH DIRECTIONAL LIGHTING ASSORTED ROADS **\$11.99 EA.**

ROUNDHOUSE ENGINE & TENDER
With SOUND

HOT!

#84700 2-6-0 ENGINE & TENDER W/SOUND Starting At 139.99
#84500 4-4-0 ENGINE & TENDER W/SOUND Starting At 139.99
#84901 2-8-0 ENGINE & TENDER W/SOUND 169.99
#85121 4-6-2 ENGINE & TENDER W/SOUND 169.99

#85300 85" PULLMAN PALACE PASSENGER CARS, 1890s THRU 1920s ERA NEW SALE \$18.99 EA.

#200001 RAPIDO HO TURBO TRAIN SET 369.99
#200101 ADD-ON CARS 29.99 EA.

GET EVEN BETTER PRICES
THAN WHAT YOU SEE HERE!

Sign Up For E-MAIL SALES & NEWS

ON OUR WEBSITE AND RECEIVE BY E-MAIL
EXTRA DISCOUNTS, SPECIALS AND
SUPER SALE ITEMS

BLUELINE BROADWAY LIMITED

HIGH QUALITY - WHOLESALE PRICING
DC SOUND EQUIPPED/DCC READY

5000 SD40-2 WHOLESALE
5017 C&O T-1 2-10-4 NEW! WHOLESALE
5020 SD-9 WHOLESALE
5033 PENNSYLVANIA M1a/h 4-8-2 WHOLESALE
5040 C30-7 WHOLESALE
5055 GE-AC 6000 WHOLESALE
5067 SD-7 WHOLESALE
5077 N&W CLASS A 2-6-6-4 WHOLESALE
5080 UP, DIE-CAST BIG BOY 4-8-8-4 WHOLESALE
5085 PENNSYLVANIA J-1 WHOLESALE
5089 RSD-15 WHOLESALE
5101 EMD F-7A, F-7B or F-7AB WHOLESALE
5120 ALCO FA, FB or FAB WHOLESALE
5163 SP AC4 CAB FORWARD WHOLESALE
5140 PRR T1 DUPLEX 4-4-4-4 WHOLESALE
5145 USRA 2-8-2 HEAVY MIKADO WHOLESALE
5158 SF 4-8-4 NORTHERN WHOLESALE
5170 USRA 2-8-2 LIGHT MIKADO WHOLESALE
5180 NEW YORK CENTRAL 4-8-4 NIAGARA WHOLESALE
5200 N&W CLASS A 2-6-6-4 W/21 TENDER WHOLESALE
5205 F-3 A OR B OR AB WHOLESALE
5220 C16 2-8-0 WHOLESALE
5230 PENNSYLVANIA GG-1 WHOLESALE
5240 E-7 A OR B OR AB WHOLESALE
1011 BLUE LINE DC MASTER CONTROL 29.99

BROADWAY LIMITED

1055 USRA 4-6-2 LIGHT PACIFIC SALE
1285 NYC L-4A MOHAWK 4-8-2 NEW! SALE
1293 UP TTT-6 2-10-2 COAL OR OIL SALE
1297 UP TTT-6 2-10-2, BRASS SUPER SALE

075 N&W CLASS J 4-8-4 ... STARTING AT 149.99

1280 NEW HAVEN I-5 HYBRID 4-6-4 ... SALE
321 UNLETTERED K-4 PACIFIC 4-6-2, SOUND 249.99

1196 20" CENTURY LTD. ED. HUDSON NEW 239.99
1353 NYC J1E HUDSON W/P4 TENDER NEW 239.99

1156 UP 4-8-2 MOUNTAIN 239.99

624 GG-1 ASSORTED STYLES 204.99

401 F-7 SALE
1400 F-7 A, B, AB SALE
441 E-8/E-9 SALE
601 E-7A, ASSORTED RDS. SALE
569 E67 DUMMIE B, NO SOUND SALE
722 E-7 A-B-B SALE
725 E-7 A-B SALE
735 E-7 A, NEW ROADS SALE
760 E-3/E-6 SALE
1162 E-7 A, AB SALE
1360 E-8/E-9 A OR B SALE

701 EMD SD-40-2 SUPER SALE STARTING AT 109.99
301 ALCO RSD-15 SALE STARTING AT 129.99
471 C-30-7 SALE 199.99
632 NW2 DIESEL SALE 139.99
645 SW7 DIESEL SALE 139.99
685 AC 6000 CW SALE 199.99
1200 NW2 DIESEL 139.99
1242 SD40-2 179.99

501 ZEPHYR CHROME PASS. CARS SUPER SALE 39.99
1535 MORE ASSORTED ZEPHYR CARS CALL
1570 SP COAST "DAYLIGHT" PASS. CARS NEW

284 K7A STOCK CAR, SOUND READY 17.99
920 STOCK CARS W/CATTLE OR HOG SOUNDS 79.99
850 STOCK CAR W/4PK, NO SOUND 79.99
869 53" WOOD REEFER 19.99
1001 HO DC SOUND ACTIVATOR (SIDE KICK) 29.99
1003 QUANTUM ENGINE PROGRAM & ACTIVATOR 39.99

ASSORTED ROADS **NEW!**

ATHEARN HO GENESIS

HOT!

#G9120 UP 4-6-6-4 CHALLENGER SALE 249.99
#G9150 UP 4-8-4 BIG BOY SALE 249.99
#G9200 UP 4-8-4 FEF-2/3 NEW 279.99
#G97000 SP 4-8-2 MT-4 NEW 269.99

NEW GENESIS #G97101 HO Athearn SOUTHERN PACIFIC 77" PULLMAN CHAIR CAR
\$41.99

NEW!

• 24" Recommended • Constant Lighting • Interior

GENESIS HO Scale

HOT!

Athearn

#G6110 SD-70 Starting At \$49.99 Ea.
#G6110 SD-75 Starting At \$69.99 Ea.
#8020 F-7 A+B Starting At \$49.99 Ea.

#80201 F-7A \$31.99

#95801 HO Scale Athearn SW1000
NEW
\$63.99 Ea.

#95840 HO Scale Athearn SW1500 \$63.99 Ea.

#94000 HO Scale Athearn RS-3 DCC READY
\$64.99 Ea.

#93500 HO Scale Athearn SD-38 DCC READY
STARTING AT **\$49.99 Ea.**

#8000 HO Scale Athearn SD-40-2 69.99
#93540 Athearn SD-40, DCC Ready 69.99
#95100 Athearn SD-40T-2 DCC Ready 69.99

#95200 Athearn SD-40-2 DCC Ready
Starting At **\$49.99**

#91602 HO Scale Athearn SD-45T-2 DCC READY
STARTING AT **\$49.99 Ea.**

#95404 HO Scale Athearn SD-45 DCC READY \$69.99 Ea. **NEW!**

#8040 HO Scale Athearn SD-50 DCC READY
\$69.99 Ea.

#91652 HO Scale Athearn SD-60 DCC READY
STARTING AT **\$49.99**

#91531 HO Scale Athearn CF-7 DCC READY
STARTING AT **\$39.99 Ea.**

#80871 HO Scale Athearn C44-9W DCC READY
STARTING AT **\$49.99 Ea.**

#8080 HO Scale Athearn AC4400 DCC READY
\$69.99 Ea.

#91701 HO Scale Athearn GP-35 DCC READY
STARTING AT **\$49.99 Ea.**

#8001 HO Scale Athearn GP38-2 \$54.99 Ea.

#79671 HO Scale Athearn GP40-2
STARTING AT **\$39.99 Ea.**

#77820 GP-50 DCC READY 64.99
#94700 GP-40X DCC READY 64.99

#91501 HO Scale GP-60M DCC READY 64.99
#91521 HO Scale GP-60B DCC READY 64.99

#2600 HO Scale Athearn F59
STARTING AT **\$39.99 Ea.**

#94182 P40 or P42 AMTRAK
NEW
\$69.99 Ea.

ATHEARN HO GENESIS NEW LOWER PRICES (S= SOUND)

G1000 F7A 84.99	F7A/B 164.99	F7ABA 249.99
G1000S F7A 139.99	F7A/B 279.99	F7ABA 399.99
G10701 F2A 84.99	F2A/B 164.99	F2ABA 249.99
G10801S F2A 139.99	F2A/B 279.99	F2ABA 399.99
G2000 F3A 84.99	F3A/B 164.99	F3ABA 249.99
G2000S F3A 139.99	F3A/B 279.99	F3ABA 399.99
G3000 F9A 84.99	F9A/B 164.99	F9ABA 249.99
G3000S F9A 139.99	F9A/B 279.99	F9ABA 399.99

ATHEARN GENESIS

MP15AC	99.99
G66050	174.99
G66150S	174.99
FP-45/F-45	104.99
G67501	179.99
G67601S	179.99

ATHEARN GENESIS SD-45-2
G67050 Starting At 49.99
G67150S 174.99

ATHEARN GENESIS SD-60M/SD-60I
G67252 99.99
G67352S 174.99
G6110 Genesis SD-70's OR SD-75's, Asst. Rds. Ea. 99.99

READY-TO-ROLL MULTI-PACKS

3-PACK
#38881 30,000 GAL. ETHANOL TANK CAR NEW 59.99

4-PACK W/LOAD
#95702 40' BALLAST HOPPER NEW 41.99

5-PACK NO LOAD
#72380 PS COVERED HOPPER 54.99
#91100 MAXI WELLS CARS NEW 89.99
#92785 FMC COVERED HOPPER 54.99

5-PACK W/LOAD
#83028 BETHGON COALPORTER 69.99
#84457 50' THIRALL COAL GONDOLA 59.99
#84600 5-BAY RAPID CAB HOPPER SALE 15.99
#84900 BATHTUB GONDOLA W/COAL LOAD 69.99

6-PACK
#70810 34' COAL HOPPER W/LOAD 54.99
#71434 40' REEFERS 59.99
#73211 SINGLE DOME TANK CARS 54.99
#73225 40' STOCK CAR 54.99
#92777 40' QUAD HOPPERS 54.99
#94852 26' TIGHT BOTTOM ORE CAR W/LOAD 64.99
#95600 3-BAY HOPPER W/LOAD 59.99

ATHEARN READY-TO-ROLL - Asst. Rds. STARTING AT
7800 HEAVY WEIGHT PASSENGER CARS Ea. 12.99
7900 STREAM LINED PASSENGER CARS Ea. 12.99
7700 CONTAINERS PRICES VARY
28401 TRAILERS PRICES VARY
28900 57' ALL PURPOSE SPINE CAR (3 PCS) Ea. 54.99
7000 40' STEEL BOXCAR Ea. 11.99
70161 40' DOUBLE DOOR BOXCAR Ea. 11.99
7025 50' PLUG DOOR BOX Ea. 11.99
70371 40' Y.S.D. BOXCAR Ea. 11.99
7050 50' RAILBOX CAR Ea. 12.99
7070 50' SINGLE DOOR BOXCAR Ea. 12.99
7100 57' REEFER Ea. 12.99
7120 40' STEEL REEFER Ea. 12.99
7150 54' PS 3-BAY COVERED HOPPER Ea. 11.99
7170 50' 5344 BOXCAR Ea. 13.99
71964 40' GRAIN BOXCAR Ea. 11.99
7200 CENTER FLOW HOPPER Ea. 11.99
72550 HUSKY STACK W/CONTAINERS Ea. 19.99
7275 CHEMICAL TANK CAR Ea. 11.99
7300 SINGLE DOME TANK CAR Ea. 11.99
7350 THREE DOME TANK CAR Ea. 11.99
7370 62' TANK CAR Ea. 12.99
73901 50' RTC 20,900 GAL. TANK CAR Ea. 19.99
7400 CUPOLA CABOOSE Ea. 12.99
74250 2 WINDOW OR 4 WINDOW CABOOSSES Ea. 14.99
7450 BAY WINDOW CABOOSE Ea. 12.99
7500 WIDE VISION CABOOSE Ea. 12.99
7525 CRANE + TENDER Ea. 29.99
7550 50' MECHANICAL REEFER Ea. 12.99
7575 40' WOOD REEFER Ea. 12.99
8152 40' FLAT W/1000 GAL. TANK CAR Ea. 14.99
89101 30' NACC 8,000 GAL. TANK CAR Ea. 12.99
91101 56' WELL CAR W/CONTAINERS Ea. 19.99
91201 50' COMBO DOOR BOXCAR Ea. 12.99
91251 50' Y.S.D. BOXCAR Ea. 12.99
91301 50' SUPERIOR DOOR BOXCAR Ea. 12.99
91351 50' D.D. PLUG DOOR BOX Ea. 12.99
91401 50' FMC 5347 S.D. BOXCAR Ea. 12.99
91431 50' GONDOLA W/LOAD Ea. 14.99
91451 FLAT W/PULPWOOD LOAD Ea. 13.99
92051 50' FLAT W/40' OR 45' TRAILER Ea. 15.99
92081 40' FLAT W/STAKE BED Ea. 13.99
92101 50' FLAT W/2 TRACTORS Ea. 18.99
92161 FLAT W/CRATES Ea. 11.99
92181 40' FLATCAR W/BOAT Ea. 14.99
92201 40' FLATCAR W/PLANE Ea. 14.99
92221 40' DERRICK FLATCAR Ea. 12.99
92239 HEAVY DUTY FLAT W/LOAD Ea. 17.99
92251 40' EXPRESS BOXCAR Ea. 11.99
92301 50' D.D. 5277 BOXCAR Ea. 12.99
92329 FLAT W/VEHICLES PRICES VARY
92361 50' FLAT W/2 TRAILERS PRICES VARY
92401 50' EXPRESS BOXCAR Ea. 12.99
92551 50' EXPRESS REEFER Ea. 12.99
92671 60' FLAT CAR Ea. 13.99
92701 60' FLAT W/LOAD Ea. 19.99
92801 52' GONDOLA W/LOAD Ea. 14.99
92789 40' RIBBED BOXCAR Ea. 12.99
92881 50' S.D. 5277 BOXCAR Ea. 12.99
92921 50' D.D. OFFSET BOXCAR Ea. 12.99
93600 65' MILL GONDOLA Ea. 14.99
93700 PS-2 3-BAY HOPPER Ea. 17.99
93801 OPER. ROTARY SNOWPLOW + TENDER Ea. 38.99
93900 PS2, ACF 2-BAY HOPPER Ea. 17.99
94250 30,000 GAL. ETHANOL TANK CAR Ea. 19.99
94300 40' GONDOLA Ea. 11.99
94500 50' ICE REEFERS Ea. 16.99
94800 16,000 GAL. SLURRY TANK CAR Ea. 18.99

TRAINWORLD®/TRAINLAND®
TOLL FREE 1-800-541-7010
INFORMATION 1-718-436-7072
www.trainworld.com
www.trainland.com
Minimum Shipping \$9.95
15% Restocking Fee on Approved Returns
Prices Subject to Change Without Notice. 10/08P

TRAINWORLD
TOLL FREE 1-800-541-7010
INFORMATION 1-718-436-7077
www.trainworld.com
www.trainworldonline.com
Minimum Shipping \$9.95
15% Restocking Fee on Approved Returns
Prices Subject to Change Without Notice. 10/03



Gradall's railroad track maintenance machine is a hydraulic excavator that uses a variety of interchangeable tools. It includes rubber tires and railroad wheels so it can travel on a highway or work from the track. Bob Warrick photos



Here's the business end of a huge weed whacker that clears brush growing within 25 feet of the track.

Industrial size weed whacker clears brush

Summer is the busy season for railroad maintenance crews who only have a few months to handle heavy track repairs, clear brush from the right of way, and open up and restore all of the drainage ditches. The strange-looking track machine shown here is one of their primary tools.

Gradall is the trademark name for a versatile series of hydraulic excavating machines that were developed during World War II. At the time, manpower was in short supply and construction was booming. Railroads soon found that these compact earth-moving machines could be fitted with railroad wheels and many other

attachments to expand their capabilities. Rubber tires allow highway travel to a grade crossing near the job site. There the machine can shift to its railroad wheels and travel along the track for easy access to remote areas.

From its on-track position, this Gradall's cab can rotate from side to side and its triangular boom can reach more than 20 feet in the air over a 25-foot radius. When it's fitted with a bucket, it can clear debris from ditches down to 18 feet below the rails, yet its compact size allows it to work in tight spots under bridges and inside tunnels.

The Gradall shown here is fitted with a mowing attachment that

operates just like a huge string trimmer. The large steel disk rotates at high speed and the three swinging steel blades cut off any tall grass, weeds, or underbrush.

Besides the mower, Gradall offers interchangeable boom extensions, special purpose buckets, a grapple, and tree limb shears.

Whenever this machine's work will interfere with a main track, the maintenance foreman must get a "track and time" authorization from the train dispatcher that specifies when the work can be done. The operating rules require that the machine must be clear of the track before the time expires. — *Jim Hediger, senior editor*

In union stations, would one railroad take care of switching services and maintenance, or would the tenants share the work?
Russell Fiero, Farmingdale, N.Y.

A union station is a train depot that's shared by two or more railroads. The idea was to consolidate all of a city's service into a single terminal where passengers could easily make connections between the railroads. The operating costs were shared in a variety of ways, depending upon the organization of the terminal.

Large union stations were often run by a terminal railroad that did all of the switching and property maintenance. The tenant railroads

were charged an annual rental that was based on their traffic and for any servicing they received.

Smaller union stations were often run as a separate, but jointly owned, terminal company. The tenant railroads shared the depot's maintenance costs and profits based on the percentage of stock owned. Each owner took care of its own switching, car maintenance, and locomotive servicing. Mail and express services were handled under separate contracts.

For more information, I recommend Andy Sperandio's book, *The Model Railroader's Guide to Passenger Equipment & Operation* (Kalmbach). — *J.D.H.*

I've noticed that the Union Pacific's signals only light up when there's a train approaching nearby. Is there any way to model this?

Nick Schumacher, Carroll, Iowa

This style of signal operation is known as approach lighting. With this system, signals are normally dark. When a train enters the approach block, it energizes a relay to turn the signal on so the oncoming engine crew can see its indication. After the train passes, the signal turns off.

Approach lighting is common in today's signal systems as it conserves energy and reduces potential vandalism in rural areas. Lighted

A Fine Time

Spectrum

1:20.3 Narrow Gauge Rolling Stock



Bachmann's selection of *Spectrum*® Large Scale 1:20.3 Rolling Stock gets even bigger with the addition of finescale Low-Side Gondolas, Frameless Tank Cars, and Framed Tank Cars.

Featuring the exquisite detailing modelers expect from our *Spectrum*® line, these Fn3 freight cars are excellent companions to any locomotive on your Large Scale roster. So have a fine time on your railroad. Visit your favorite hobby retailer to learn more about the *Spectrum*® 1:20.3 Rolling Stock and Bachmann's complete line of model railroading products. Now that's the way to run a railroad!

Features include:

- finescale detailing
- metal wheels
- die-cast knuckle couplers (body-mounted coupler pockets for wide radius use only)
- offset shank couplers also included for use with other popular brands of narrow gauge couplers (1:22.5)

Low-Side Gondola (with opening side doors)

\$159.00



PACIFIC COAST
Item No. 88296



FLORENCE & CRIPPLE CREEK
Item No. 88297



PAINTED UNLETTERED
OXIDE RED
Item No. 88298



PAINTED UNLETTERED
BROWN
Item No. 88299

Frameless Tank Car

\$212.00



GRAMPS #88172
Item No. 88495



UTLX #11058
Item No. 88496



PAINTED UNLETTERED
BLACK
Item No. 88497



PAINTED UNLETTERED
SILVER
Item No. 88498



PAINTED UNLETTERED
OXIDE RED
Item No. 88499

Framed Tank Car

\$212.00



WHITE PASS & YUKON #59
Item No. 88195



UTLX #13168
Item No. 88196



PAINTED UNLETTERED
BLACK
Item No. 88197



PAINTED UNLETTERED
SILVER
Item No. 88198



PAINTED UNLETTERED
OXIDE RED
Item No. 88199



HAWKINS RAIL 25 YEARS OF SERVICE

GRAIN IS MOVING AT HAWKINS RAIL! -
See 130 car unit grain train running on the in-store layout. Many out of production items from estates. Providing same day shipment for 25 years! Call Jack Hawkins at 765-742-5577

Same complete inventory at our NEW LOCATION:
3501 Union St., Suite 6. *Everything for the serious modeler.*
Hours: Mon-Fri 12-5, Sat 10-5
Closed Sun. Evenings by appointment.
ALL MODELS SUBJECT TO PRIOR SALE.

WE DO NOT HAVE A CATALOG. We ask that you call us or send us your want list with SSAE. We will advise you of the price, availability, and shipping charges. International shipments made only to countries accepting insured mail. We have no minimum order. Personal check orders are held 4 weeks. **MASTERCARD and VISA accepted.** Sorry, collect calls are not accepted, but feel free to call with your railroad questions, model or prototype.

HAWKINS RAIL SERVICES
3501 Union St., Suite 6
P.O. BOX 6008
LAFAYETTE, IN 47903
PHONE: 765-742-5577

RAILROAD HOBBIES

119 VERNON ST., ROSEVILLE, CA 95678
PH. (916) 782-6067

AT&SF LCD 1503/COACH 3103	W/INT FP	CY	HO	\$850
AT&SF PA/PB/PA No#	FP KEY	HO	\$1299	
AT&SF DASH 8-40BW #541	WP OMI	HO	\$425	
D&RGW COACH	PP KAT	HO	\$200	
GN OBSERVATION W/SHADES	PT BAL	HO	\$100	
GN DINER	PT BAL	HO	\$80	
GN SLEEPER	PT BAL	HO	\$50	
MILW CAFE/DINER	OMI	HO	\$300	
MILW PARLOR CAR ISHKOODAH	OMI	HO	\$300	
MP/UP SD50 #5002	CP OMI	HO	\$325	
N&W 4-8-4 J CLASS	SUN	SUN	\$500	
SN PARLOR CAR	PT SUY	SUN	\$200	
SN NILES COACH POWERED	SUY	SUN	\$200	
SP 2-6-0 M-6 #1736	FP PSC	HO	\$1049	
SP 4-10-2 SP-3 #5048	FP PSC	HO	\$1150	
SP 2-6-0 W/100-C-4 VANDY TENDER	FP SUN	HO	\$649	
SP 2-6-0 W/100-C-4 VANDY DCC/SND	FP SUN	HO	\$699	
SP 10314 TAVERN	SOHO	HO	\$185	
SP DINER CORRUGATED	SOHO	HO	\$180	
CBO/CZ DINER #193 SILVER CAFE	FP ORI	N	\$175	
PICKERING 3 TRUCK SHAY	PT	N	\$1299	
SP 2-8-0 C9 #2819	FP KEY	N	\$650	

www.rhobbies.com

www.rrhobbies.com

Information Desk

railroad signals have always been popular targets for bored hunters. Leaving the lamps off takes away the satisfaction of a good shot.

Most of today's more advanced model railroad signal systems offer optional electronic circuitry that will reproduce this effect, if desired. - J.D.H.

I purchased a number of HO scale intermodal containers in all of the contemporary sizes and then bought a group of A-Line, Athearn, and Walthers well cars to haul them. My problem is none of the well cars can handle the 53-foot containers, so I'm wondering if I missed a specialized extra long well car that hauls them?

Paul Caiazza, Bradford, Mass.

Gunderson makes the prototype Husky Stack well cars. Athearn offers HO scale 56-foot 2+2 cars and several five-platform versions in numerous paint schemes. Kato offers the Maxi-IV three-platform cars with 53-foot wells in HO.

National Steel Car Co. (NSC) is a Canadian car builder that makes high-capacity intermodal cars with 53-foot wells. HO models of these cars are sold by Walthers in three-platform or single-unit cars.

Intermodal containers are built with all of their strength in the floor and end frames, but the rest of the box is relatively weak sheet metal. The end frames are the key to supporting a great deal of weight when the containers are stacked in a ship's hold.

However, as long as the stacking frames line up, most 53-foot containers can ride on top of 45- or 48-foot containers.

Some of the heaviest intermodal loads travel in 20-foot containers, so they normally ride in the wells. A long container (40- or 45-foot) may be stacked on top as long as their combined load doesn't exceed the well car's capacity. This weight issue explains why we often see two short containers riding by themselves. - J.D.H.

precisiontools

Whether you're a skilled model railroader, or a beginner putting together your very first layout, Xuron offers a complete line of premier quality hand tools that will enhance and simplify your work. From our world-famous Track Cutter to our not so famous (but just as terrific) Wire Strippers and Pliers, Xuron tools provide quality results time after time.

Xuron's patented blade by-pass Micro-Shear® cutting action ensures straight square cuts while our Lifetime guaranteed Light-Touch™ return spring and cushioned Xuro-Rubber™ grips provide all day comfort. Made in USA

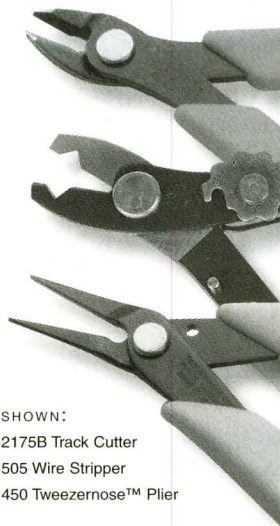
XURON

CORP.

Please call or write for (free) full line catalog. www.xuron.com

US & Canadian Sales Xuron Corporation, 62 Industrial Park Road, Saco, ME 04072 • TEL. 207 / 283-1401 • sales@xuron.com
International Sales ZED Group, Chelsea, MA 02150 • TEL. 617 / 889-2220 • rzisa@zedgroupinc.com

SHOWN:
2175B Track Cutter
505 Wire Stripper
450 Tweezernose™ Plier



Complete HO/N
System at Home

Deluxe Pro Cab
at the Club



NCE's NEW Power Cab is a complete, high end, 2 Amp DCC system in one compact hand-held throttle. Operate lights, sounds, program and more.

Your Power Cab also doubles as a regular Deluxe Pro Cab when you operate at a layout with our larger system.

NCE
The Power of DCC

NCE Corporation
At your favorite DCC Dealer - NOW!
www.ncedcc.com

\$189.95
Patents Pending MSRP

Send your questions about prototype railroading to Information Desk, *Model Railroader* magazine, P.O. Box 1612, Waukesha, WI 53187, or e-mail proto@mrmag.com. We regret we can't answer all the questions we receive.

NEW

This #4 WYE gets you out of a tight corner

For full details of the Code 83 line see our latest catalog.

WITH
ELECTROFROG
SL-E8348
OR
INSULFROG
SL-8348
(shown)

Made in England by
Pritchard Patent Product Co. Ltd.
Visit us at: www.peco-uk.com

PECO STREAMLINE
Whatever the scale Peco has the answer

83
LINE

• HO Scale: Code 75, 83 or 100 • N Scale: Code 55 or 80 • O Scale • Gauge 1 • Z Scale • On-30 • HO_n2½ • HO_m (HO_n3½) • G-45



Signal Control

Automation

The New RPS

Railroad Positioning System

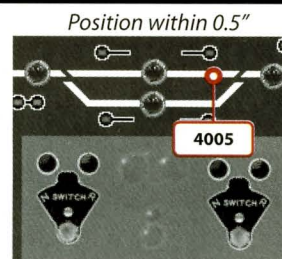
(it models the prototype GPS)

Position and Loco ID#

- anywhere, anytime
- with basic DCC and JMRI freeware
- U-sonic source in loco, receivers above

Signal, switch & train control

- no track or block wiring (Beyond 2 wire DCC connection)



Loco ID

www.RPS-mrr.com

WALTHERS

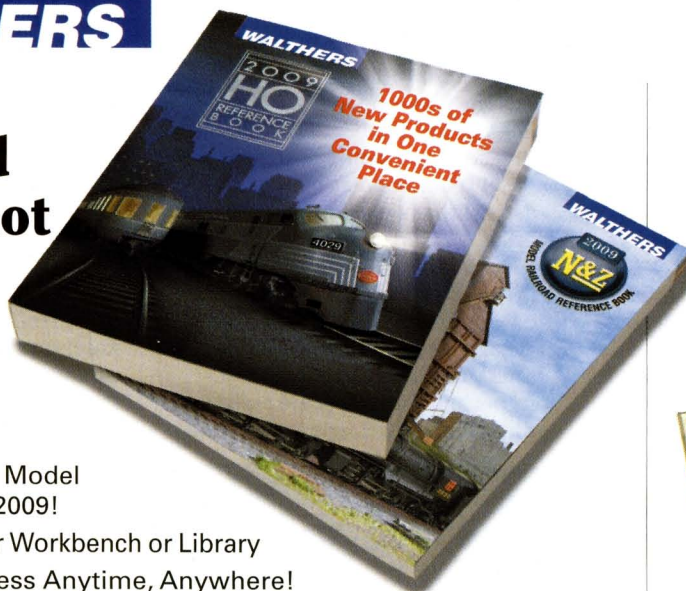
The One and Only Snapshot of Model Railroading History

- Your Personal Album of Model Railroading History for 2009!
- Handy Reference for your Workbench or Library
- Instant Information Access Anytime, Anywhere!
- 1000s of New Products in One Convenient Place
- All-New Magic of Model Railroading Photos & Info Stations

2009 HO and N&Z Reference Books Arriving Soon!

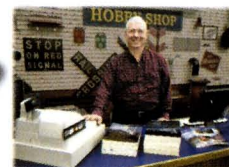
913-209 HO Reference Book \$14.98

913-249 N&Z Reference Book \$14.98



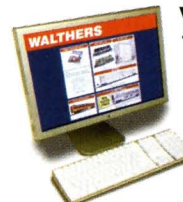
Order Yours Today!

Three Convenient Ways to Reserve Your Copy Now:



See Your Local Hobby Dealer

- Friendly Service
- Great Selection
- Visit walters.com to find shops in your area



Visit Walther's.com

- Hottest New Product Info—READY NOW!
- Instant Access to Everything in our Warehouse
- Product Locator™ for Hard-to-Find Items



Check Out the Walther's Flyer™

- Pick up a free copy at your local hobby shop, sign up at walters.com or call us at 1-800-4TRAINS (1-800-487-2467).

Your Number One Resource For Model Railroad Product Information



Bob Foltz builds large structures on a piece of plywood that he sets on a wood stool alongside his workbench. With the plywood balanced on the stool, he can easily turn the model to add details to any side. Bob Foltz photos

Putting a spin on large modeling projects

I was **scratchbuilding** a large HO scale model of the Las Vegas Harvey House when I decided there had to be an easier way to handle this sizeable, partly finished structure. I didn't have any plans, so many of the dimensions had to be estimated from a mock-up, prototype photos, and sketches. Eventually, the building outgrew my workbench and, to make matters worse, many of its subassemblies were rather delicate until they were installed.

Inspiration hit when I saw a television promotion for a cooking show where the hostess was frosting a cake. She was decorating all sides of the cake by rotating it on a lazy Susan – and she never had to touch the cake. This immediately got me thinking about how I could adapt this concept to my modeling.

I soon found out that the readily available kitchen products were too small, as my hotel filled most of a 30" x 36" footprint. I did have a piece of scrap plywood that was the right size, but how could I make it rotate? The solution came when I temporarily set the plywood on a wooden stool and discovered the

smooth sheet of plywood rotated easily on the flat varnished top.

The stool is a little taller than my workbench, so I could position it with the plywood overlapping the back part of the benchtop. This allowed me to easily reach the model from the office chair (on casters) that I use at the workbench. I could move readily from the in-progress model to my work surface and back again as I measured and test fitted various pieces. The extra space around the model came in handy as a place to temporarily set my scale rule, adhesives, pencil, and small tools.



Small turntables, like this one from Rubbermaid, make it easy to turn models on your workbench as details are added during final assembly.

I didn't attach the plywood panel to the stool and had no problem with the board tipping as long as I didn't lean on it too heavily and kept the weight evenly balanced. For more security, you could drill a hole in the center of the plywood and loosely drive a screw into the stool's top. When your project is finished, simply remove the screw and the stool is still usable for its original purpose.

When I was ready to install the hotel on the railroad, I just picked up the plywood and carried it and the model to the site I had chosen. I set the plywood panel directly on the layout so I only had to lift and move the structure a foot or so into its final location.

After using my homemade turntable, I realized how handy a smaller version would be. Rubbermaid makes plastic turntables 10½" and 14" in diameter that are sold in the housewares department of most large chain stores. I found them ideal for many final assembly jobs.

Having a couple of these inexpensive turntables on hand makes it easier to safely move partially completed models out of the way

Show Schedule



The Great Train Expo

CALIFORNIA

September 27 & 28, 2008

Santa Clara County Fairgrounds, San Jose

November 29 & 30, 2008

Alameda County Fairgrounds, Pleasanton

COLORADO

November 8 & 9, 2008

National Western Complex, Denver

GEORGIA

November 22 & 23, 2008

North Atlanta Trade Center, Norcross

ILLINOIS

November 29 & 30, 2008

Gateway Center, Collinsville

Online: GTExpo.com

INDIANA

October 18 & 19, 2008

Indiana State Fairgrounds, Indianapolis

NORTH CAROLINA

NEW LOCATION

September 13 & 14, 2008

Expo Center—NC State Fair, Raleigh

NEW LOCATION

October 4 & 5, 2008

Cabarrus Arena & Event Center, Concord

OHIO

November 15 & 16, 2008

Ohio Expo Center, Columbus

TENNESSEE

NEW LOCATION

September 20 & 21, 2008

Knoxville Expo Center, Knoxville

WASHINGTON

November 15 & 16, 2008

Western Washington Fair, Puyallup

- Operating layouts on display
- 200-500 Tables
- Huge selection
- How-to hobby clinics
- Free admission for kids

Saturday & Sunday, 10am to 4pm

Adults \$7, (good for both days) Kids Under 12 Free

PO Box 725, Oswego, IL 60543

Phone: 630-608-4988



CHICAGO

Great Midwest Train Show

World's LARGEST monthly train show

DuPage County Fairgrounds, Wheaton, IL

9:30 am to 3:00 pm - Adults \$7 - Kids FREE!

★★ In Five Buildings!!! ★★

Selling Space is Available

Contact Us Today:

PO Box 34 • Elmhurst, IL 60126 • Phone: 630-290-1962

Discount coupon and show details online:

GreatMidwestTrainShow.com

Upcoming Show Dates:

Sep 14 • Oct 12 • Nov 9 • Dec 14

Jan 11 • Feb 8 • Mar 8 • Apr 5

GREENBERG TRAIN SHOWS ...since 1976

CONNECTICUT - HARTFORD

CONN. EXPO CENTER - Nov. 8 & 9, 2008

MARYLAND - TIMONIUM

MARYLAND STATE FAIR - Dec. 6 & 7, 2008

MASSACHUSETTS - WILMINGTON

SHRINERS AUDITORIUM - Nov. 22 & 23, 2008

NEW HAMPSHIRE - MANCHESTER

THE CENTER OF NEW HAMPSHIRE *NEW SHOW!*

January 17 & 18, 2009

NEW JERSEY - EDISON

NJ EXPO CENTER - November 29 & 30, 2008

NEW JERSEY - SOMERSET

GARDEN STATE EXHIBIT CTR - Jan. 3 & 4, 2009

NEW YORK - MIDDLETOWN

ORANGE COUNTY FAIR ARENA *NEW SHOW!*

February 14 & 15, 2009

PENNSYLVANIA - GREENSBURG

LAUREL HIGHLANDS EVENT CTR *NEW VENUE!*

February 7 & 8, 2009

PENNSYLVANIA - MONROEVILLE

PITTSBURGH EXPO MART *Last Expo Mart Show!*

October 11 & 12, 2008

PENNSYLVANIA - PHILADELPHIA

VALLEY FORGE CONVENTION CTR *NEW VENUE!*

December 13 & 14, 2008

PENNSYLVANIA - READING

READING EXPO CTR - October 25 & 26, 2008



America's Best Train Show

Saturday & Sunday: 10:00am to 4:00pm

Admission: Adults - \$7.00 (good for both days)

Kids 11 & Under Are FREE

Online: GreenbergShows.com

P.O. Box 34, Elmhurst, IL 60126

Ph. 630-279-4087 Fax 240-597-4482

Selling Tables Are Still Available At Most Shows; Collectors and Individuals Welcome!

Call for Details! 630-279-4087

PENNSYLVANIA - YORK

YORK EXPO CENTER - Jan. 10 & 11, 2009

VIRGINIA - CHANTILLY

DULLES EXPO CENTER - Dec. 27 & 28, 2008

International HOBBY EXPO™

MODELS • TRAINS • RC • CARS • BOATS • PLANES & MORE!

Attractions For All Ages!

- Huge Operating Model Railroads!
- Free Riding Train for Kids!
- Thomas the Tank Engine Playland!
- Newest Models on Display!
- Learn the Latest Modeling Techniques From the Pros!
- Speak With Model Railroad Manufacturers & Exhibitors!
- Make-It/Take-It Programs!
- Latest Tools & Accessories!

October 18 & 19, 2008

Donald E. Stephens Convention Center

5555 N. River Rd. Rosemont, IL (Chicago)

Adults \$10, Children under 10—FREE!

SENIORS - Over 65 are Just \$8

Scouts in Uniform are Admitted FREE!

SHOW HOURS - 10am—5pm

SATURDAY AND SUNDAY

Sponsored By:



Endorsed By:



**TWO DAYS ONLY -
DON'T MISS IT!!!**

LARGEST HOBBY SHOW IN THE COUNTRY

Bring The Whole Family!

- KIDS ARE FREE!
- OVER 600 BOOTHS!
- R/C Flying Competition!
- Indoor Dirt Track Racing!
- Monster Truck & 1/12 Scale Raceways!
- Pinewood Derby Races!
- Slot Car Track!
- Plastic & Die Cast Models!
- Robots, Rockets and More!

For More Info Visit
www.GIANTSHOW.com

1/87 (HO) Scale Diecast
Caterpillar D9T Bulldozer
with Ripper

CAT



Norscot Item
#55209

Features: Movable blade and ripper
functions, plus detailed rubber tracks.

\$20.95 ea. plus shipping
WWW.ZYCONMODELS.COM

or call Dan Goins: 972-252-0866

Zycon Models specializes in 1/87 heavy equipment models.
eBay seller ID: zyconmodels

NEW! ATSF Section House kit

photo by Bill Vandermeer.
HO kit shown



**N-#094
HO-#194**

Check out Blair Line for:

- HO/N laser cut Wood Structures
- HO/N laser-cut Wood Billboards
- HO/N Advertising & Highway Signs
- HO/N Graffiti Decals and more...

See your dealer. If your dealer doesn't have it
visit our website or request our free catalog.

Blair Line LLC -Dept. 272

PO Box 1136, Carthage, MO 64836 www.blairline.com

Workshop

and into temporary storage. They're also handy in my spray booth. I use them to turn the model without touching it to get good paint coverage on all sides. – *Bob Foltz, Colorado Springs, Colo.*

I have a bunch of Walthers HO scale heavyweight passenger cars that need to have a number of holes drilled to install their grab irons and other wire details. I generally buy the no. 80 bits a dozen at a time and seem to use about a dozen per car! Any ideas?
Gary Schmidt, Cleveland, Ohio

After having a similar experience, I recently tried what sounds like a screwball idea, but found it worked really well. I clamp my Micro-Mark modeler's drill press near the edge of the workbench and put a no. 80 bit in the chuck. Then I use a Dremel speed control to slow the machine's speed way down. A bright floodlight and an Optivisor or magnifying shop light help me see what's happening.

I use a scribe to deepen each of the molded Walthers drilling points and then I hold the carbody in both hands, with the heels of my hands resting on the bench.

Next, I gently lift the carbody up into the spinning drill bit until the bit contacts the mark and begins to cut into the plastic. I maintain light pressure until I feel the bit break through. At that point, the weight of the carbody will allow it to back off the spinning bit. Note that the carbody orientation must be maintained as each hole is drilled or the bit will be damaged.

This method also lets me drill holes at an angle into the curved surfaces of the roof.

Between holes, I run the bit into a bar of soap for lubrication.

Since I started this method, I haven't broken more than a couple of bits drilling holes in my plastic cars. – *Jim Hediger, senior editor*

Workshop will pay \$25 for published tips. Send your modeling and layout-building questions and ideas to Workshop, *Model Railroader* magazine, P.O. Box 1612, Waukesha, WI 53187, or e-mail workshop@mrmag.com. We regret we can't answer all the questions we receive. There is no payment for questions; tips are paid for upon publication.

Your Dream Layout can be a Reality!

Museum Quality

Custom Model Railroad Builders

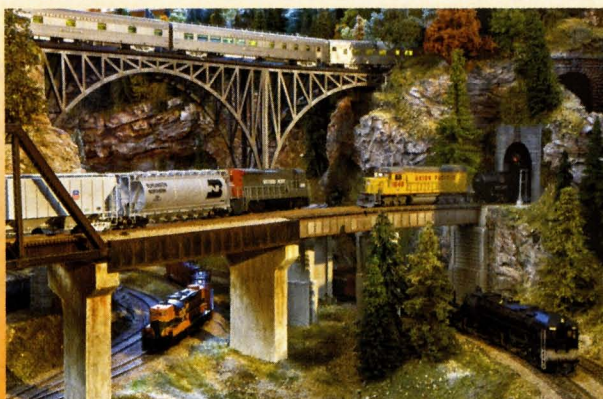
SMARTT

Scale Models, Arts, &
Technologies,
Inc.

P.O. Box 600505
N. Miami Beach,
Florida 33160

Tel. 305-949-1706
Fax 305-947-7458
smartt@netrox.net

Home Page
www.smarttinc.com



*Catering Exclusively to the Discriminating Enthusiast
from N Scale to G Scale . . . We Do It All!*

Train Layouts - www.smarttRR.com

3 NEW N SCALE SETS!

Sunday Drive



AUTOSCENES

Henry's Haulin'



Willie's Warning



WOODLAND SCENICS
www.woodlandscenics.com

Purchase at your local hobby shop.

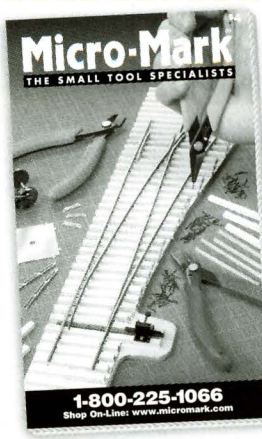


www.1stPlaceHobbies.com
Toll Free: 1-888-750-7256
303 W Market St, Ste C, Bluffton, IN 46714

Nearly 100,000 items online
400+ Manufacturers
21 Separate Categories
SECURE ONLINE ORDERING

*Our database is updated everyday.
No matter what scale you model, you
will find everything you need right here.*

Discounts up to 40%
All scales available
Visit us online or call us toll free



120 pages of great products for the railroad modeler!

The Micro-Mark catalog has over 2,750 name brand and hard-to-find tools, trains and accessories...many at discount prices...all designed to complete your projects in less time with more professional results.

A \$4.00 value...yours FREE with this coupon!

Mail this coupon
(or a copy of it) to:

Micro-Mark 340-3564 Snyder Avenue
Berkeley Heights, NJ 07922-1538

NAME

ADDRESS

CITY

STATE

ZIP

EMAIL ADDRESS

New Products!

Modern Electrical Boxes

- Assembled & Painted
- New Tooling!
- Now Available



HO #4312
N #607

HO #4310
N #605

Window Mounted Air Conditioner Kits

- Etched-Metal
- 12 Styles!
- Now Available

HO #4109
N #609

12/\$12.95
12/\$8.45

Modern Hooded Signal Heads

- Assembled & Lighted!
- Now Available



HO #4039

2/\$19.95

Visit Us Online!

BLMAmodels.com

16623 Pear Blossom Ct.
Whittier, CA 90603
Phone: 562-712-7085
sales@BLMAmodels.com



Internet Hobbies™
The World's Online Hobby Shop™

CHECK OUT OUR VOLUME REBATES

If Your Order Totals:	REBATE AMOUNT
\$100.00 - \$149.99*	\$10.00
\$150.00 - \$199.99*	\$15.00
\$200.00 - \$249.99*	\$20.00
\$250.00 - \$299.99*	\$25.00
\$300.00 - \$399.99*	\$30.00
\$400.00 - \$499.99*	\$40.00
\$500.00 - \$599.99*	\$50.00
\$600.00 - \$699.99*	\$60.00
\$700.00 - \$799.99*	\$70.00
\$800.00 - \$899.99*	\$80.00
\$900.00 - \$999.99*	\$90.00
\$1000.00* or more	\$100.00

**The More You Buy...
The More You Save!**

*Shipped Merchandise Only - See Website For Details

www.internethobbies.com

504 Business Route G - MAYFIELD, PA 18433 USA

800-873-9893

TOOLS GS

Professional Precision Tools

Tools & Adhesives
for intricate applications

- Model Railroad
- Miniatures • Repairs

IHOBBY EXPO Booth #2804

PLIERS • FILES • CUTTERS • SAWS • TWEEZERS • DRILLS

visit **www.ToolsGS.com** or call **800.295.3050**



**American
Beauty**



Introducing the SuperChief250

Professional Resistance Soldering System
designed specifically for the modeling enthusiast

"System enabled me to make joints adjacent to each other that would have been impossible with a soldering iron or gun."

—Frank H. Lawrenceburg, PA

"I never have to worry about melting any ties as the heat remains isolated to the area that I am soldering."

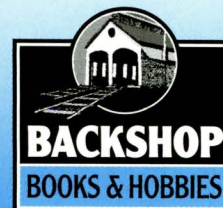
—Bob Peterson, WI

Visit **WWW.AMERICANBEAUTYTOOLS.COM/MODELER** or call **800-550-2510**

**Everything for
your layout ...**

**... from the comfort
of home.**

A FULL-LINE,
FULL SERVICE,
SET-TO-SCENERY
SHOP. AVAILABLE
BY THE SET OR
BY THE PIECE IN
ALL GAUGES: N,
HO, O AND G.



AT STRASBURG
RAIL ROAD

CALL TOLL-FREE
877-475-8990

SHOP ONLINE AT
StrasburgRailRoadStore.com



Follow along as Cody Grivno tells you how he completed the scenery on this bluff. Photos by the author and Jim Forbes

Model the edge of a forest on a bluff

In the August Scenery Step by Step column, Neil Besougloff and I installed plaster rocks at Winter Hill on our HO scale Milwaukee, Racine & Troy layout. This month, I'll continue upgrading the scenery at this location by adding trees.

Trees are available in dozens of species from a variety of manufacturers, so finding ones appropriate for the locale of your model railroad isn't that difficult. For this project, I used coniferous trees from Grand Central Gems, Scenic

Express, and Timberline Scenery Co. These firms produce coniferous trees similar to those found in southeastern Wisconsin, where our layout is set.

Also, these are the same trees David Popp used for the Lake Beulah makeover (February 2007 *Model Railroader*). Lake Beulah is on the other side of the layout aisle from Winter Hill. From certain angles, Lake Beulah and Winter Hill can be viewed as one scene, so I wanted to tie these two wooded areas together.

Though the trees used here are ready to plant, I enhanced those in the foreground by adding roots, as shown in **step 2**. For more tips on upgrading trees, read my article "Improving commercial trees" in the June 2007 issue of MR.

There are few parts of the country that don't have wooded areas, so trees are a necessity for your model railroad. Fortunately, we have a variety of model trees to pick from. Find those that look right for your area and get planting. **MR**

Step 1 Preparing the scene



Dried up lichen, faded ground foam, and clump foliage was the scenery at Winter Hill when I started this project. The scenic base for this portion of the layout is a cardboard web covered with plaster-impregnated gauze strips. Since I knew removing the ground foam with a putty knife could potentially damage the fragile scenic base, I removed only the lichen and clump foliage and left the ground foam in place. I used a vacuum to suck up any loose scenery.

Next, I applied diluted white glue (4 parts white glue to 1 part water) over the scene with a foam brush. Then I used a spoon to apply Timberline Scenery Co.'s forest floor ground cover. The color of the foam was a bit too vibrant for my taste, so I toned it down by sprinkling Woodland Scenics green blend fine turf and Scenic Express coarse green grass over it.

Step 1 Preparing the scene (cont'd)

Once I had the scenery material in place, I wet it with 70 percent isopropyl alcohol. After letting the alcohol soak in for a couple of minutes, I used a pipette to apply Woodland Scenics Scenic Cement, as shown in the upper right photo. Applying the alcohol first makes it easier for the Scenic Cement to wick all the way through the ground foam. Otherwise, the top layer will dry hard, and the scenery underneath will be loose.

With the Scenic Cement still wet, I used a Noch Gras-Master to apply static grass (fibers that, when used with the Gras-Master, stand vertically). I first applied ochre field grass fibers, but they looked too pale. Then I mixed in golden-yellow field grass (1:1 ratio) to create the blend shown in the lower right photo. The static grass, when used with ground foam, gives the forest floor more depth and realism.



Step 2 Foreground trees

I used Grand Central Gems hand-made lodgepole pines for the foreground trees. However, instead of simply sticking the trees in the ground, I added roots to those that would be close to the rock outcropping.

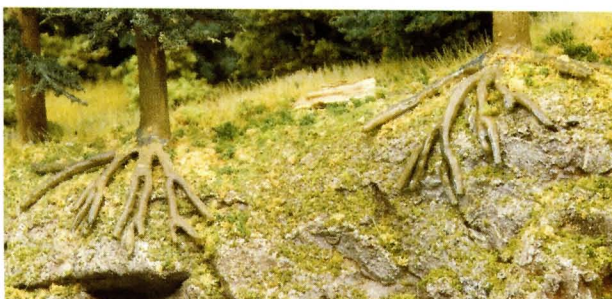
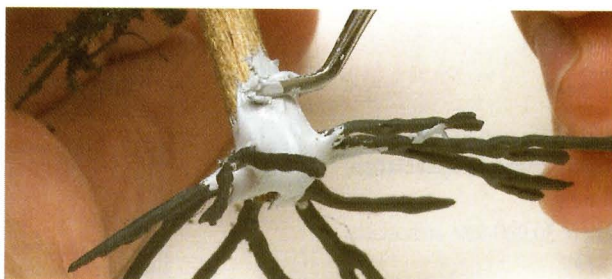
To do this, I first used a $\frac{3}{32}$ " bit to drill holes near the base of each tree. Next, I clipped off branches from metal Woodland Scenics tree armatures and inserted them in the holes. I used medium-viscosity cyanoacrylate adhesive (CA) to cement the metal branches, now used as roots, to each tree. See the upper right photo.

Next, I applied Tamiya modeling putty to blend the roots into the trees. I spread the air-dry material with a Squadron Products putty applicator, shown in the second photo at right. This tool makes it easy to blend the putty into the wood tree trunks.

I let the putty dry overnight, and then I lightly dragged a razor saw over it to create a bark texture, blending the putty into the trunk.

I airbrushed the puttied area and roots with Polly Scale Earth, followed by a thin coat of Steam Power Black (1 part paint to 9 parts 70 percent isopropyl alcohol). I painted a bit of the tree trunks, too, completing the transition between the wood tree trunks and the putty. You can see the results in the third photo on the right.

Finally, I planted the foreground trees on the rocky outcropping. I used smooth-jaw needle-nose pliers to carefully bend the roots. Unfortunately, the putty cracked a bit when I did this. I used gap-filling CA to fill the cracks, and I touched up the area with paint. Once I'd bent the roots to their desired shape, I secured the trees to the layout with full-strength white glue. You could also use CA.



CUSTOM MODEL RAILROADS

Kits

Custom Built Structures

Construction of Fine Scale Model Railroads



Custom Model Railroads
3937 Keswick Road
Baltimore, MD 21211
410-889-0010

www • custommodelrailroads • com

Feed Your Passion!

For the love of model trains...



whatever your gauge preference!
Join the **Train Collectors Association™** today and enjoy

- A network of 30,000 train enthusiasts, just like you.
- TCA Train Meets – including York!
- TCA Quarterly Magazine
- TCA X-Change – on-line marketplace
- E-Train – on-line newsletter
- National Toy Train Museum, Strasburg, PA
- **and Friendships that Last a Lifetime!**

Plus so much more!



Call the Train Collectors Association for your membership application today!

(717) 687-8623

Or visit us on-line at
www.tcamembers.org

Scenery Step by Step

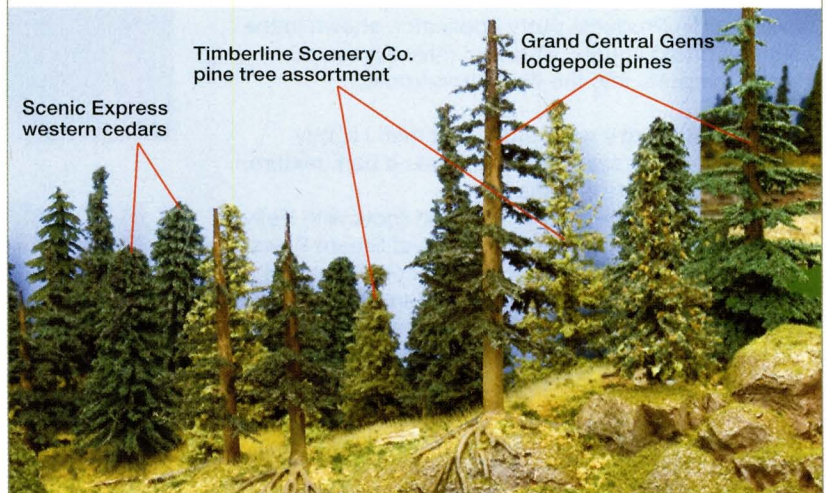
Step 3 Filling in the forest



With the foreground trees planted, I began filling in the rest of the forest. I placed the Scenic Express and Timberline Scenery trees on the layout to see how they'd look. Once I was satisfied with the position of the trees, I marked the locations with a felt-tip marker and drilled holes at those spots.



I put white glue in each hole and planted the trees. Since the trees from Scenic Express and Timberline Scenery Co. have wire trunks, it's easy to bend them so they'll stand vertically.



Here we see a portion of the completed forest. By using trees from different manufacturers, I was able to model a realistic wooded area with trees of different colors and heights. The trees with exposed roots do their part in drawing viewers into the scene, while the background trees help convey the feeling of a wooded grove.

BIG NEW YORK CENTRAL POWER ARRIVES

NOW IN-STOCK!



SEE IT IN
ACTION
ON THE WEB

Learn how M.T.H. HO locomotives best anything available today by checking them out at your local M.T.H. Authorized Retailer or visit

www.mthHOtrains.com/steam

New York Central
4-8-2 L-4b Mohawk Steam Engine w/PS 3.0
80-3127-1 w/Proto-Sound 3.0 \$449.95

FEATURES INCLUDE:

- **SYNCHRONIZED PUFFING SMOKE** Timed To Driver Revolutions
- **FULL DIGITAL SOUND** Including Quillable Whistle, Operating Bell, Squeaking Brakes and More!
- **DIE-CAST METAL** Construction
- On-Board **DCC RECEIVER**
- Built In **SPEED CONTROL** For Smooth Operation
- **AND MUCH, MUCH MORE!**



HO TRAINS THAT DO MORE

© 2008 M.T.H. Electric Trains

Digitrax

Complete Train Control

Zephyr's Ready When You Are!



Since winning Model Railroader Magazine's 'Product of the Year' award in 2002, the Digitrax Zephyr has proven to be one of the most popular ways to get into DCC. The Zephyr's truly a 'Starter Set' that you can start and grow with regardless of how big your layout becomes. All this happens through the magic of LocoNet® the Digitrax interconnection standard that lets you add boosters, power management devices, stationary decoders and many other types of devices easily and inexpensively.

Visit us at digitrax.com to find out more!



The main line, passing siding, and spur all have distinctive looks on Paul Dolkos' HO scale diorama. Follow along as Paul describes the different techniques he uses to model each type of track and roadway.

Modeling different types of track

Make your main lines, sidings, and spurs more realistic

By Paul J. Dolkos • Photos by the author

Railroads refer to track and ballast as the roadway. Even on the same prototype railroad, the look of the roadway can vary greatly. These track, ballast, and scenery variations offer a lot of modeling opportunities when you adapt them to your model railroad.

The condition of a roadway depends on how it's used. A main line usually has heavy rail and closely spaced ties on a pristine mound of gray rock ballast. A siding or secondary line often has lighter rail on a shallower mound of darker-colored ballast. An industrial

spur can have wider spaced ties and rails that are obscured by weeds or partially buried by dirt.

The condition of the roadway can also reflect the prosperity of a railroad, since track maintenance is expensive. For example, as the number of railroad



Fig. 1 Height variation. Sidings often have shallower ballast piles and lighter rail than main lines. On his diorama Paul used HO scale roadbed and code 100 track for the main line and N scale roadbed and code 83 track for the siding.

bankruptcies increased throughout the 1960s and 1970s, many main lines were weed-covered and unkempt.

For this article I built an HO scale diorama with a main line, siding, and an industrial spur. I'll use it along with some examples on my home layout to give you some ideas for how you can model each different type of track.

Varying roadbed height

One of the first things that you'll notice about prototype track and ballast is that the main line is higher than secondary lines, such as sidings. Industrial spurs and yard tracks are often at or near ground level.

For my diorama's track I used cork roadbed to represent the height of the ballast pile. A layer of prototype ballast usually ranges between 12" and 30" with the largest amount of ballast reserved for main lines.

As you can see in **fig. 1**, I used HO scale roadbed for the main line and N scale roadbed for the siding on my scene. This provides about a scale 7" difference in height. I laid the track for the industrial spur directly on the plywood subroadbed.

Track codes and tie spacing

Model railroad track comes in different rail heights, referred to as codes. Some common codes are 100, 83, 70, and 55, which represent 156-pound, 132-pound, 100-pound, and 75-pound prototype rail.

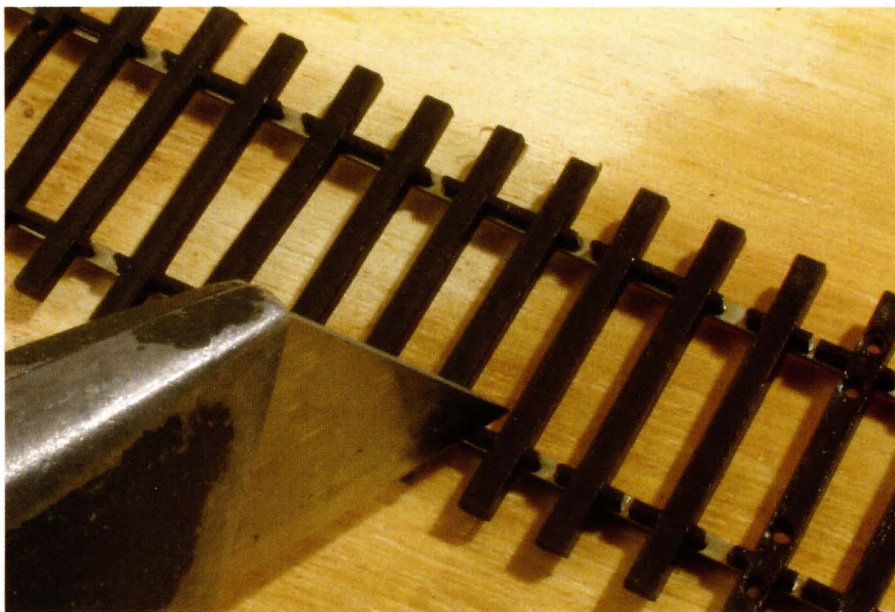


Fig. 2 Tie spacing. Most flextrack has tie spacing appropriate for main lines. For spurs Paul moves ties farther apart after first cutting the connecting links.

Prototype railroads often used different size rail for main lines and secondary lines. Maintenance-of-way departments laid the heaviest rail along the main line and the lightest on industrial sidings and spurs.

On my diorama I used code 100 rail on the main line and code 83 on the passing siding, as you can see in **fig. 1**. You could also use code 83 for the main line, code 70 for passing sidings and other secondary lines, and code 55 for industrial sidings and spurs.

Tie spacing varied between main lines and secondary lines. Heavy-duty main lines typically required 24 ties per 39-foot rail section or a tie spacing of 11½" between tie edges. Sidings and spurs can have as few as 19 ties per each 39-foot section of rail, with ties spaced 16" apart.

Most flextrack has ties spaced appropriately for a main line. For secondary tracks, I cut the plastic connecting links as shown in **fig. 2**. Then I space the ties a few scale inches farther apart



Fig. 3 Weathering ties. Wood ties, even those treated with creosote, turn gray as they age. Paul replicated this effect by applying a wash of alcohol and Polly Scale Dust. He brush-painted the rails with brown and rust colored acrylics.



Fig. 4 Ballast variations. On Paul's diorama the siding (left) has cinder ballast with a few weeds between the ties while the main line has crushed-rock ballast and is weed-free. Railroads didn't maintain sidings as rigorously as main lines.

before laying the track. For industry spurs I'll also skew several ties.

Weathering track

After laying the track, I airbrush it with Polly Scale Roof Brown. This flat, neutral color eliminates the sheen of the plastic ties and the bright metal shine on the rails.

Using a clean cloth or paper towel, I immediately wipe the railhead clean

after applying the paint. This ensures that paint won't interfere with the electrical conductivity between the rails and locomotive wheels.

As with other pieces of railroad equipment, exposure to the elements takes a toll on rails and ties. Main line track is usually in better condition than secondary track.

Even creosote-treated ties turn gray over time. I simulate this by applying a

wash of Polly Scale Dust on the ties, as in **fig. 3**. The wash consists of one part paint and four parts isopropyl rubbing alcohol. You could also drybrush the ties for a similar effect.

After weathering the ties, I brush-paint the sides of the rails. I use Polly Scale Grimy Black for main line track. I use rust and brown colors on sidings and spurs.

Types of ballast

Ballast varies according to the railroad's era, volume of traffic, and location. The earliest railroads used the most readily available material, including sand, dirt, and oyster shells. These materials trapped water, causing ties to rot, and proved more likely to wash away during a downpour.

Crushed rock quickly became the preferred material for ballast. The hard edges of the individual pieces interlock and provide a solid foundation for the track and ample drainage for water.

Railroads usually purchased ballast from local on-line quarries. Most railroads used granite when available, although some used limestone where that rock was more prominent.

In the steam era and into the diesel era many railroads used cinders and crushed blast furnace slag as ballast on secondary lines and spurs. On some main lines cinders were used as sub-grade under rock ballast. Many Western and Southwestern railroads used



Fig. 5 Gravel-covered siding. Gravel from an adjacent lot can mix with ballast on a siding. Paul partially covered this siding (lower right) at the freight house on his home layout. He embedded the rails of the spur (at left) into the parking lot.

oil-fired steamers, so those roads had no ready access to cinders for ballast.

Individual pieces of ballast range from $\frac{3}{4}$ " to 3" in size. Pieces of cinder ballast are usually at the smaller end of that range.

When choosing the ballast for your model railroad, examine the size of the individual pieces and don't simply rely on the scale marked on the package. Many modelers use N or Z scale cinder ballast on their HO scale layouts for a more prototypical appearance.

Model railroad ballast is available in a variety of colors, so you shouldn't have much difficulty matching the ballast found on your favorite prototype. Some modelers worry about running out of a certain ballast color. However, this happened on prototype railroads as well when a maintenance-of-way department had to change suppliers or a quarry closed.

Other ballast color variations show how well a stretch of track is maintained, as you can see in **fig. 4**. Ballast on secondary lines is less frequently cleaned and renewed than on main lines. If you're not using cinders for secondary lines, you can model this practice by choosing a darker colored rock ballast for your sidings and spurs.

On sidings or spurs next to lots or driveways, vehicle traffic can cause dirt or gravel to partially cover the ties. I modeled this effect on the siding in front of the freight house on my HO

Making dirt grade crossings and gravel lots



On his diorama, Paul built up a gravel lot using layers of cardboard. He used real powdered dirt as ground cover for the road surface.

On some secondary lines the space between the ties is filled with dirt to form a simple grade crossing or gravel lot. I added a gravel lot to the spur on my diorama. The following technique is less messy than using plaster alone.

First I cut pieces of cardboard to fit the space between the rails and the approaches to track. You could also use foam board or styrene. I built up the area where the lot crosses the tracks to a height slightly below the railhead to ensure that locomotive wheels wouldn't lose electrical contact. I also allowed about $\frac{1}{16}$ " on each side of the cardboard for flangeways. Then I attached the cardboard to the track and scenery with white glue.

I blended the edges of the cardboard to the scenery base using plaster. Once the plaster dried, I painted it and the cardboard with tan latex paint. Then I sprinkled the wet surface with fine dust that I collect from a dirt road near my home. I used ground foam to model a few random weeds.

After all of the scenery had dried, I cleared the flangeways with a utility knife. Then I lightly sanded the gravel lot to simulate tire tracks from vehicles crossing the tracks. — P.J.D.



Fig. 6 Clumps of weeds. Paul used Silflor MiniNatur Prairie Tufts and ground foam along the roadway and between the ties of the spur.



Fig. 7 The end of the line. Stub-end yards offer a lot of scenicking opportunities. Paul used prairie tufts and ground foam in this scene on his home layout.



Fig. 8 Grass seed follicles. Using tweezers, Paul pulled follicles off a grass seed tassel. He used this material to model tall weeds and grass.

scale Boston & Maine layout, shown in **fig. 5**. At some locations the space between the rails may be filled with earth to accommodate vehicles. See "Make a dirt grade crossing" on page 41.

Weeds and grass

Secondary lines and spurs usually have various amounts of vegetation encroaching the roadway. A lightly trafficked branch line may have a few scattered clumps of grass sprouting from the ballast, while a seldom-used spur may have large patches of tall weeds growing between the ties.

I use many different colors of scenery material. Along with shades of green, I use yellow and brown material to depict dry or dead vegetation.

I sprinkle fine and medium ground foam along the roadway and between the ties to depict small weeds. You can see the results in the siding shown in **fig. 4** on page 40. I secure the ground foam with a 4:1 solution of isopropyl alcohol and white glue. Before the glue dries I pick off any pieces of foam that have landed on top of the ties.

I use a variety of products for taller vegetation. If you still want to run trains over the track, make sure that any material that you install between the ties is flexible and doesn't derail rolling stock.

For larger clumps of weeds, such as those between the ties of the spur shown in **fig. 6**, I used Silflor MiniNatur Prairie Tufts. This product is sold in 8" x 12" sheets of about 100 tufts. Each tuft peels off the sheet and is easy to install with white glue or scenery cement. This product is available in $\frac{1}{8}$ " and $\frac{3}{8}$ " heights.

Prairie tufts and ground foam also worked well at the ends of the tracks in a small yard on my home layout, as shown in **fig. 7**. A small stub-end yard at an industry or on a branch line is another location where tracks and ballast can be less maintained.

I apply static grass flocking for large patches of tall grass. Although some of the flocking material will land horizontally, enough of the strands will remain vertical to simulate a realistic grass texture.

First I apply white glue to the locations where I want patches of tall grass. Then I add the flocking using a shaker squeeze bottle (often called a puffer). Static electricity makes some of the fibers land vertically in the glue.

For better results you can use a Noch Gras-Master tool to apply flocking. This device electrically charges the fibers, causing a higher proportion of them to land vertically.



Fig. 9 Tall weeds. For the seldom-used spur on his diorama, Paul used grass seed follicles (left, foreground) to model tall weeds and applied static grass (right, foreground) for large areas of unkempt vegetation.

I've also had good results using individual follicles from a grass seed tassel, like the one shown in **fig. 8**, to model individual tall weeds. I pull off the follicles with tweezers and attach them to the layout with white glue. The follicles have a thin profile that's perfect for HO scale grass, but the material is fragile and requires some patience to install. I also use these grass seed follicles to model tall weeds near building foundations and retaining walls.

I installed grass follicles and static grass next to the siding shown in **fig. 9**. As on the prototype, a weedy siding or spur provides an interesting contrast to a neatly ballasted main line on a model railroad.

An even greater contrast to a highly trafficked main line is an abandoned right-of-way with half-buried ties, torn-up rail, and assorted debris like that shown in **fig. 10**. Partially dismantled track is an interesting scenic detail.

Whether a high-speed double-track main line or an overgrown industrial siding, accurately modeling different types of track will make your layout look more like a real railroad. **MR**

Paul J. Dolkos is a frequent contributor to Model Railroader. His series of articles about detailing the railroad right-of-way appeared in the November 2007 through January 2008 issues.



Fig. 10 Abandoned right-of-way. Modeler Dale Latham added a torn-up siding on his layout. The scene offered a lot of modeling opportunities.

Superelevating flextrack



Andy Schnur developed a simple method for superelevating curves on his layout, the results of which are seen here.

Build up ramps of masking tape to give track curves a realistic profile

By Andy Schnur • Photos by the author

John Armstrong says in his book *Track Planning for Realistic Operation* that superelevation isn't necessary for our models to run properly. But, he adds, "Using it adds so much to appearance that many experts consider it a must." So, when I started building my dream layout about 15 years ago, I wanted to superelevate my curves. But how?

Superelevation – raising the outside rail of a curve ever so slightly so trains lean into the turn – is one of the few track-

work techniques Armstrong doesn't explain in his book. Other sources of information are scarce as well, so I developed my own method. Follow along as I show you my technique. **MR**

Andy Schnur has been reading Model Railroader since he was 12 years old. His Chesapeake & Ohio layout was featured in the February 2005 issue of MR. He is retired and lives in Lafayette, Calif., with his wife Ellen. They have two daughters.

Easing into curves



Small nails hold one end of a wooden spline in line with the track approaching the curve. Bending the batten produces a smooth, natural curve, without kinks.

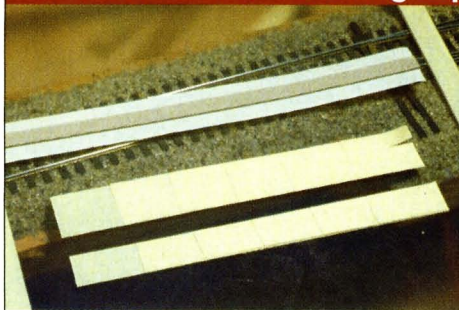
When I started building my layout, there was no such thing as ready-made Code 83 flextrack, so I used Shinohara Code 70. Though this is the correct rail height for the era I model in HO, it requires careful installation. Therefore, I pulled a page out of Armstrong's book to lay out easements for my curves.

I started with a thin, flexible wood spline about 3 feet long that I ripped from a piece of $\frac{3}{4}$ " scrap lumber with a table saw. Another option could be to use a piece of scrap molding picked up at a lumber yard, or even a wood yardstick.

I tacked a few $\frac{3}{4}$ " brads into the plywood subroadbed to hold one end of the spline in line with the tangent track. Then I bent it until it touched the track curve that was already laid out, and marked the curve made by the spline on the subroadbed with a pencil.

It's important to make sure that the first brad is at least 6 to 9 inches from the beginning of the easement curve. This guarantees the track centerlines will align.

Cardboard and masking tape ramps



A cardboard strip placed in the middle of a wider strip of masking tape makes a shim for superelevating curved track. Below it, layers of tape are built up to create ramps.



Andy has applied the superelevation pieces to the cork roadbed. Since they were made of masking tape, they will stay in place on their own, without adhesive.



Andy has laid Micro Engineering track on the roadbed, using spikes driven through holes drilled in the ties on the outside of the rails. Spikes through the center of the ties could warp the track.

Cork roadbed doesn't swell when exposed to water, such as that in the thinned glue mix I use to secure my ballast. I needed a shim material that likewise was resistant to water, as well as flexible and easy to handle.

I started out with a sheet of $\frac{1}{32}$ " cardboard, which I cut into $\frac{1}{4}$ " wide strips. Cardboard will swell when exposed to water, so I centered each 11" long strip on the sticky side of a strip of $\frac{3}{4}$ " masking tape. The cardboard-and-tape combination is still fairly flexible, and it doesn't interfere with spiking the track down. The tape both protects the cardboard from water and provides an easy way to attach it to the outside curve of the cork roadbed.

That took care of the radial curve, but a flat track can't transition to a superelevated curve abruptly. I needed a shim that was 6" or so long, $\frac{1}{4}$ " wide, and went from $\frac{1}{32}$ " at

one end to 0" at the other. And it had to be bendable. Once again, the solution lay in the masking tape.

On a piece of clean glass, I stuck a 6" long strip of tape. I then cut a 5" piece and stuck it on top so that they aligned at one end. I continued this with 4", 3", 2", and 1" strips, stacking them to form a ramp. Then I used my hobby knife to square off the ends and cut it into three shims, each $\frac{1}{4}$ " wide. If I need a taller shim, I use more layers of tape and adjust the length of the pieces and their spacing accordingly. I then stuck down the tape shims on either end of my cardboard ones, bending them to follow the curve.

To secure the track, I put spikes through holes drilled in the plastic ties on the outside of the rail. Spikes through the middle of the track could bend the ties and force my rails out of gauge.

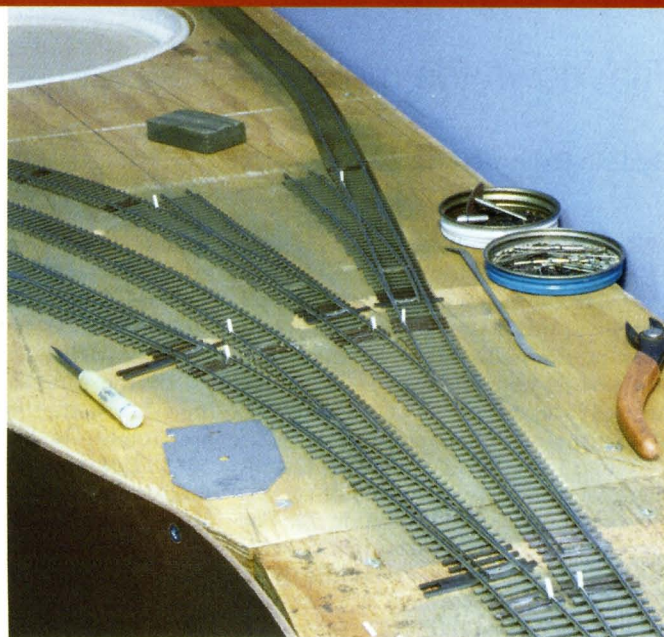
Superelevating curved turnouts

I used quite a few Shinohara no. 8 curved turnouts on my layout, and I wanted to superelevate these as well. Even when installing them flat, these turnouts must be placed with care to avoid kinking the diverging track. Therefore, I use a cardboard template with a $29\frac{1}{2}$ "-radius curve on the outside edge to check the diverging track for kinks.

I find that even with the best of planning, kinks often appear because cork roadbed isn't strong enough to hold these turnouts in place. I now use basswood in place of cork under my turnouts. I don't usually keep $\frac{3}{16}$ " basswood on hand, so I layer a $\frac{1}{8}$ " thick piece on top of a $\frac{1}{16}$ " piece.

I use the cardboard and tape shims under the entire outer rail of the curved turnout. This will leave the diverging track flat. Then, starting just beyond the frog, I use a tape shim to gradually raise the outside rail of the diverging track to superelevation height. I don't try to superelevate the frog itself. Then I continue down the outer rail of the diverging track with cardboard and masking-tape shims.

I keep checking the track with a standards gauge throughout this process. Once I have the track nailed down, I run as many trains over it as I can, in both directions. This helps me spot kinks, dips, humps, out-of-gauge track, and any spots where locomotive pilots or coupler trip pins could snag on the trackwork. I also check all the rail joints and file off any burrs I find. The time to make corrections and adjustments is now, not after the track has been ballasted and weathered.



Andy uses a large number of curved turnouts, like the one in the center of this picture, on his layout. Andy uses the same technique detailed above to superelevate the outside rail on both the main and diverging routes. The white sticks seen above are styrene to maintain rail gaps.



Three different types of HO track are shown in this view of an industrial siding on Eric Brooman's Utah Belt. The near track is modified Atlas code 83 flextrack. The turnout has handlaid code 83 rail, and the siding is handlaid code 70.

Improving Atlas code 83 flextrack

Trim down the molded spikes and add weathering for more realism

By Eric Brooman • Photos by the author

Today's HO modelers are fortunate to have a selection of realistic rail sizes to work with that correspond to typical prototype rail sizes. This allows modelers to build good-looking track with appropriate rail sizes for heavy traffic areas as well as secondary, yard, and industrial tracks.

When I began my Utah Belt layout, there were only two choices of nickel-silver rail: code 100 and code 70. For newcomers, these code numbers refer to the rail height in thousandths of an inch: code 70 measures .070" in height, while code 100 is .100" tall.

Prototype rail is designated by its weight per yard. Code 100 represents a very heavy rail size (156 pounds per yard) that was used only on the Pennsylvania RR, while code 70 (representing 100-pound rail) was actually a bit

light for the type of up-to-date, present-day railroad I was modeling. Of these choices, I decided to go with handlaying code 70 as its smaller size looked more realistic.

By the time my family moved to a new home in 1999, code 83 flextrack was readily available. This size rail was .083" tall and represented prototype 132-pound rail that was common for modern main lines. I immediately adopted code 83 as the Utah Belt's standard mainline rail.

Time constraints

I've always enjoyed the challenges of handlaying track, but I also had a commitment to provide a home layout tour for the National Model Railroad Association's 2001 National Convention in nearby St. Louis. With the convention

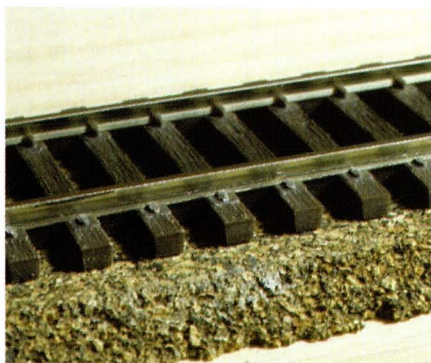
just 18 months away, flextrack provided the means of getting more than 300 feet of track up and running quickly.

I wound up handlaying all of my turnouts and most of the secondary track and industrial spurs built with lighter rail. But the main line and its primary passing sidings were all laid with Atlas code 83 flextrack, and it went in rapidly.

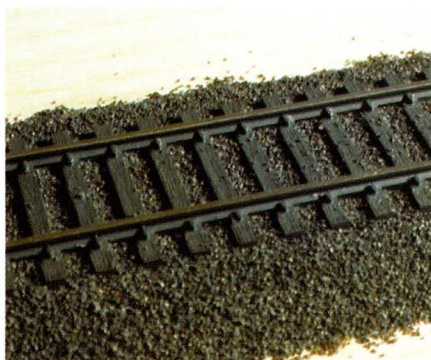
I was well satisfied with the overall use of Atlas flextrack, but subsequent closeup photography revealed oversize nubs of plastic that held the rails in place. In my photos, these molded "spike heads" stood out and looked about the size of work boots when compared to prototype spike heads, which are all but invisible from any distance. I wanted to do something to make my track look more prototypical.



A no. 17 X-acto chisel blade makes short work of trimming off the molded nubs from the Atlas code 83 flextrack. A used blade is less likely to dig into the soft metal rails.



This close-up compares Atlas flex-track with the trimmed spike heads (along the near rail) to a section that has the original plastic nubs.



Eric uses a grungy brown artist's acrylic color to paint the ties and sides of the rails. He then ballasts the track with Woodland Scenics cinders and diluted white glue.

Trimming the nubs

After rejecting the idea of replacing all of the flextrack, I tried to reduce the size of the offending plastic nubs by trimming them. An X-acto no. 17 chisel blade seemed like the best tool to handle this job. I held the side of the knife blade even with the side of the rail and

pressed the cutting edge against the nub. Unfortunately, the entire plastic nub popped off! Great! Now what was going to hold the rail in place?

Several more tries at different angles weren't successful either. As the nubs continued to pop off, I wound up with a couple of inches of track without any nubs on one side. However, I was surprised to find the rail remained solidly in place. Evidently there was just enough plastic remaining to hold the rail tight against the unaltered nubs on the opposite side. All right!

This discovery allowed me to clean off the nubs along the visible side of the rail. In the process of removing the remaining nubs, I learned that a used no. 17 blade worked best as its duller edge didn't dig into the soft metal rail.

Removing the nubs worked well for me thanks to my layout's linear track plan. Only one side of the track is visible, so the nubs remaining on the hidden side are masked from view by the rails.

I experimented with removing the nubs from both sides of the rail, but this loosened the rail too much and made it easy to dislodge. A few drops of cyanoacrylate adhesive (CA) secured the rail for short distances, but I didn't try this on any longer stretches. If your track is seen from both sides, my feeling is you'll have to choose which side will be most obvious to work on.

Painting and weathering

I paint the sides of my rail and ties with a grungy shade of dark brown. To help hold the rail in place, I use full strength artist's acrylic paint and wipe off the railheads before the paint dries. All of my track is ballasted. I use diluted white glue to hold the granules in place. Both the paint and the glue help secure the rail. When everything is dry, I polish any residue off the rail heads with 600-grit sandpaper.

During the more than six years of operating my layout, I haven't had any problems with the trimmed flextrack. At first glance, it's hard for most people to tell where the flextrack joins my hand-laid turnout rails.

This easy technique can be done to improve the appearance of new track, or track that's been installed for many years. The Atlas code 83 flextrack is a great product, and this little modification makes it look even more realistic. **MR**

Eric Brooman has been building and sharing his modern era HO scale Utah Belt for more than 30 years. He's a prolific author whose numerous articles have been published in Model Railroad and Great Model Railroads.

THE CABOOSE, LLC

5 MOHAWK DRIVE • WOLCOTT, CT 06716
(203) 879-9797 • FAX (203) 879-4878
<http://www.thecaboose.com>
E-mail: support@thecaboose.com
Mon. thru Fri. 8 a.m. to 5 p.m., Closed Saturday & Sunday

RESERVE THE FOLLOWING FROM THE CABOOSE

CALL FOR DETAILS REGARDING MODELS LISTED BELOW

Reserve the following North Bank Line models (Built By BOO RIM) from The Caboose

- NBL #SP&S-7.1 class N-5 2-8-0 #315 widely spaced steam & sand dome, boiler pilot tube small diameter air tank on fireman's side, solid pilot wheel and unique tapered boiler.
- NBL #SP-1.1 class MK-7 2-8-2 #3300 circa 1950 w/120 SC Tender BL FWH and pressed steel pilot
- NBL #SP-1.2 class MK-7 2-8-2 #3300 circa 1940 w/90 R-6 Oil Tender BL FWH and boiler pilot tube
- NBL #SP-1.3 class MK-8 2-8-2 #3313 circa 1954 w/120-SC-3 Tender and foot board pilot
- NBL #SP-1.4 class MK-9 2-8-2 #3318 circa 1950 w/120-C-6 Tender clamshell stack and boiler tube pilot
- NBL #SP-1.5 class MK-9 2-8-2 #3320 circa 1948 w/90-R-5a coal Tender
- NBL #NP-2.1 class F-1 2-8-0 #50 circa 1944, closely spaced steam and sand dome, wood footboard pilot
- NBL #NP-2.2 class F-1 2-8-0 #70 circa 1944, widely spaced steam and sand dome, footboard pilot long air tank
- NBL #NP-2.3 class F-1 2-8-0 #78 circa 1944, widely spaced steam and sand dome with second sand dome close to cab, footboard pilot small air tank
- NBL #SP&S-6.2 class N-4 2-8-0 #303 circa 1944, widely spaced steam and sand dome, solid pilot wheel long air tank on engineer's side
- NBL #SP&S-6.1 class N-4 2-8-0 #301 circa 1937, widely spaced steam and sand dome with second sand dome close to cab, spoke pilot wheel footboard pilot
- NBL #SP&S-6.3 class N-4 2-8-0 #304 circa 1938, widely spaced steam and sand dome, boiler pilot tube, longer air tank on engineers side, glacier green boiler solid pilot wheel
- NBL will be producing a series of SP&S Passenger and business cars – call for details**

BPL BRASSWORKS

Buy! Sell! Trade! Consign!

On the web at: **WWW.RAILMODEL.COM**

The best in fine scale brass - painted and unpainted Steam and Diesel engines, Rolling stock, Caboose and Structures. Service and support in the supply of HO, N, O, S & Z scale models from: American Z, Challenger, Coach Yard, Division Point, Eagle Imp, Key Imp, Glacier Park, Oriental, Overland, Precision Scale, Rail Classics, Railworks, Sunset, River Raisin, Railway Classics, W&R Enterprises

EXCLUSIVE - BPL will be The source for GN Alco RS-3 diesels in the original 'Empire Builder' livery - 3 road #s!

We are always looking for models to sell. If you want to sell, trade or consign a few pieces, a small collection or an entire estate, we would enjoy the opportunity to help you!

In Stock and Available:	Reserve any of these items:
HO Amtrak F40PH, FP - PFM	HO 3GS21B Genset switchers
AT&SF SD24, Black/Silver	Army, BNSF, NRE, NS, UP, PHL
CB&Q NE1012/13 Cabs, FP	AT&SF San Francisco Chief -
C&O K-2 2-8-2, FP - 3 vers.	1954 and 1964 eras, FP - TCY
CP SW1200Rs, FP Multimark	Baldwin AS-616 for B&LE, C&O
CRI&P AB6, FP - OMI - NEW!	CNW, ITT, Milw, O&NW, PE,
CV T-3a 2-10-4, FP - DivPt	Soo, SP, Trona, UP, FP - OMI
GN / SP&S Gondolas - W&R	D&RGW L-131/132 2-8-8-2 PSC
MKT / SLSF 'Meteor' set	EMD SD45 - BN, GN, SP
2 engines, 6 cars, FP - OMI	GN Z-1 Electrics, CP - PSC
Monon Quasi-Cupola Cab, FP	Modern EMD Executive F unit
NH T-2b 0-6-0, FP Black - OMI	sets: BN, CP, CNW, KCS, NS
NP LW Divided Coach and	NYC L-4alb 4-8-2, FP - BLI
72 seat Coach, Plated, FP	N&W K-2 4-8-2, FP - PSC
Soo Line 2-8-2, FP - DivPt	NP Q-314 4-6-2, FP by PSC
SP C-910 2-8-0, FP - CHL	SP Mk-7/8/9 2-8-2, FP - NBL
SRR GP30, High Hood, FP	SP Mt-3/4/5 4-8-2, FP - GPM
SRR Ms-4 2-8-2, FP - 4 vers.	UP 2-8-2 'MacArthur' for OSL,
SSW Cotton Belt SD45T-2, FP	LA&SL, OWR&N, UP, FP - OMI
UP City of Los Angeles train,	UP - Modern Dome Excursion
10 cars, Lighted tail sign TCY	Passenger cars: Coach, Diner,
UP AC45CCTE 5300 ser. FP	Lounge, Baggage, FP - OMI
UP 4-8-8-4 Big Boy with	UP Lone Star business car, FP
custom display bridge - PCM O	EMD SD40T-2/SD45T-2 for
UP #80 Coal Turbine - OMI	D&RGW, SP, SSW, UP, FP - OMI

Our prices and service make owning new brass a joy. **FREE CATALOG!** Worldwide Call, Leave Message, E-Mail, Write, Fax or search the Web at **WWW.RAILMODEL.COM**. We look forward to hearing from you!

10936 N Port Washington
Suite 240
Mequon, WI 53092-5031

Phone: (262) 375-1107
FAX: (262) 375-1109
Email: info@railmodel.com



4 WEEKS TO A BIGGER LAYOUT

Week 2: Laying and wiring the track for the Waterbury Industrial District

By David Popp • Photos by the author

While the 2 x 3-foot size of my Waterbury Industrial District may not seem very large, it does have 6 turnouts and more than 12 feet of N scale track on it – meaning that laying and wiring the track was going to take more than just a single evening to complete. If you remember from Week 1 of

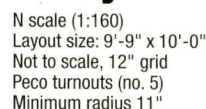
the project, featured in the September 2008 *Model Railroader*, I was under the gun to finish the addition, complete with scenery, in time for the next operating session, which at this point was only three weeks away.

Since I was building the industrial district (shown in the illustration) as

an addition to my N scale Naugatuck Valley RR, I used many of the same techniques as I did when I built the original layout. As shown in the following steps, I completed most of the work involving cutting and fitting sections of track, soldering the rail joiners, and wiring the feeders at my workbench.

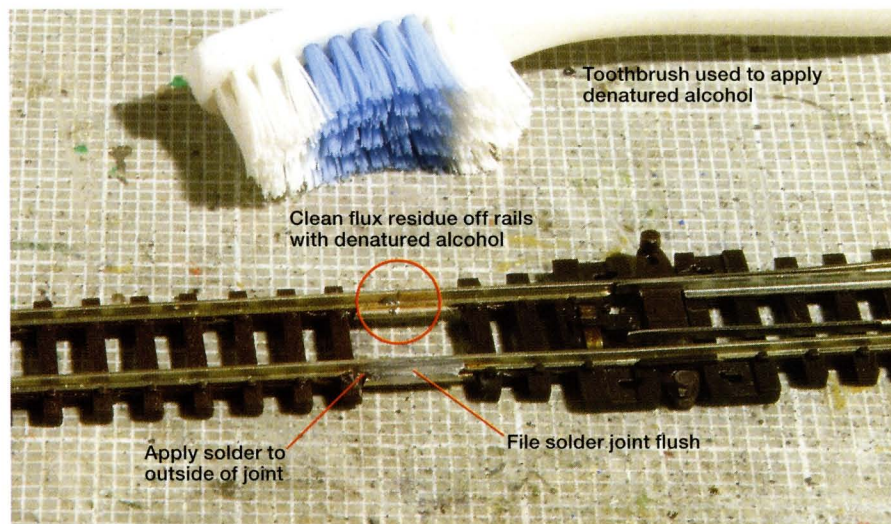


The feeder wires are routed through small holes in the foam to the bus wires, and the feeder/bus connections are soldered at staggered intervals to prevent accidental short circuits. – *D.P.*

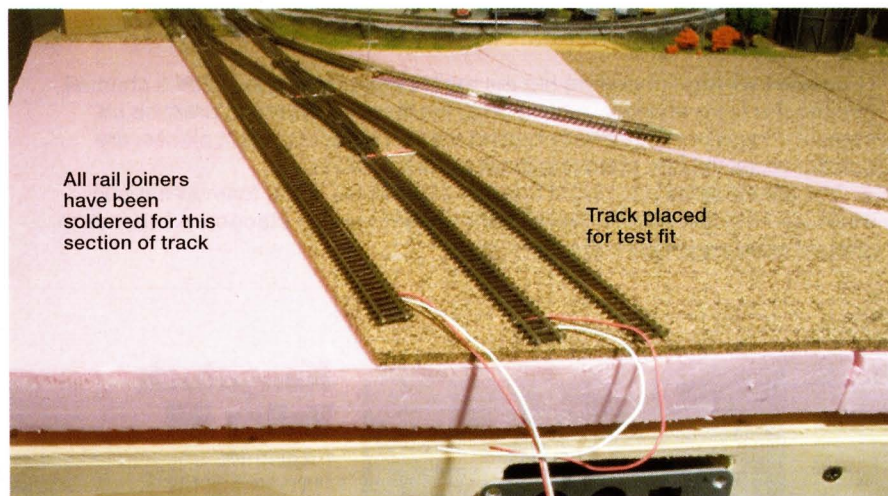


Week 3 (Coming next month):
Adding ballast, grass, and a coal
trestle to the industrial district

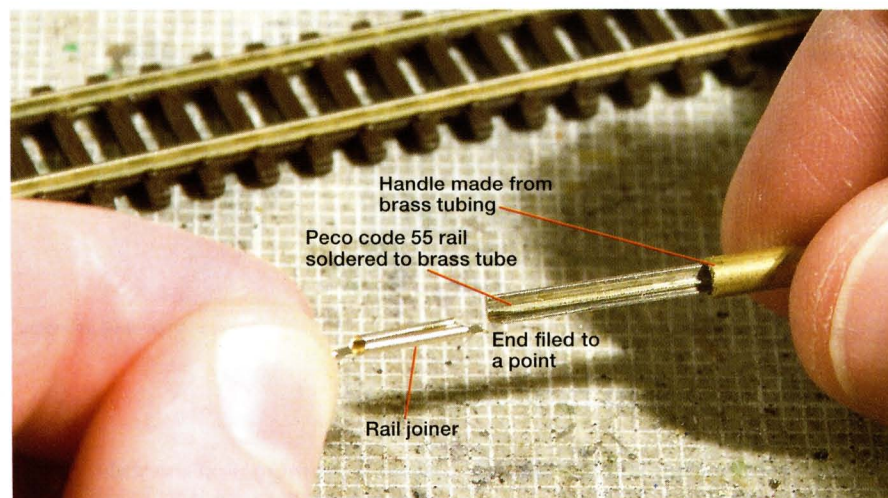
ASSEMBLING TRACK



Most of the rail joints on the addition are soldered. Coat the joint with a small amount of flux, then heat the outside rails and apply the solder.



After each section of track was soldered, David double checked his work by placing the track on the layout to make sure it fit properly.



David made a tool to open up rail joiners so they would easily slip over the double-web rail of the Peco code 55 track.

When I started building my Naugatuck Valley layout several years ago, I selected Peco N scale code 55 track for the railroad. I used the same Peco track for the industrial district project, so everything would match.

Regardless of the scale you work in, rail codes correspond to the rail's height in inches. Therefore, both N scale and HO scale code 55 rail is .055" tall. Code 55 rail looks good for N scale mainline track, so that's one of the reasons I chose it for my layout.

I also like the fact that Peco turnouts come with a built-in toggle spring for the switch points. You can set a Peco turnout by pushing the point rails with your finger, and the spring holds the points in place. The spring eliminates the need for a switch machine, ground throw, or some other latching mechanism, and since all the turnouts on my layout are within easy reach, the finger-activated turnouts work well for me.

I laid the Waterbury Industrial District's track in preassembled sections. After setting the track components (turnouts and flextrack sections) on the layout to measure them, I took the track pieces back to my workbench. There I cut the flextrack pieces to size and soldered the rails together as shown in the top photo.

To solder the rail joints, I apply a small amount of rosin flux on the rail and joint surfaces. I then heat the joint with a fine-tip soldering iron and flow in 60/40 rosin-core solder. (The flux and solder are available from RadioShack and other electronics suppliers.) I apply the solder to the outside of the rail and let it flow into the rail joiner.

After the solder cools, I clean off the excess rosin with denatured alcohol, and then I touch up the solder joint with a small file as needed.

While I used Peco code 55 turnouts and flextrack for my project, at the time, I had difficulty getting Peco code 55 rail joiners. Instead, I used Atlas N scale rail joiners, which have openings slightly narrower than the Peco rail web. To open the joiners so they'd slip easily over the Peco rail, I made a tool from a piece of rail that I soldered into a small length of brass tubing used as a handle. I then filed the end of the rail to a point.

To use the tool, I slide a new Atlas rail joiner onto the filed end of the rail to open the joiner. I then remove it from the tool and slip it onto the track section. It works like a charm.

FEEDERS AND JUMPERS

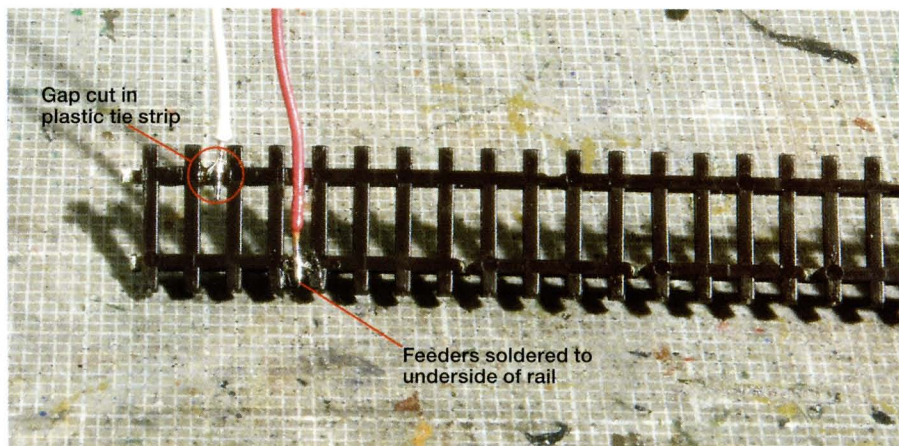
While you're assembling sections of track at the workbench, this is also a good time to add the feeder wires.

I use 22 gauge wire for the track feeders on my railroad. While you can solder the feeders to the sides of the rails, attaching them to the bottom of the rail or rail joiners, as shown in the top photo, makes a much neater finished job. To use this technique, however, you need to attach the feeders before you've laid the track.

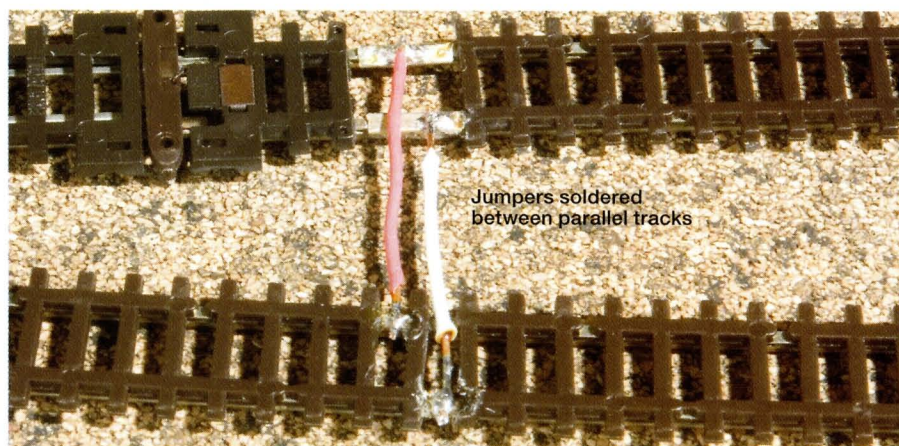
To connect a feeder, I start by cutting a gap in the plastic tie strip on the bottom of the piece of rail. I then strip a $\frac{1}{4}$ " of insulation off the end of the feeder wire. Next, I apply a small amount of rosin flux to the end of the feeder and the bottom of the rail and tin both of them. Tinning is the process of heating the wire or rail and melting a small amount of solder to it.

Once the pieces are tinned, I set the feeder wire in position on the rail, and then heat both the rail and wire with the tip of my soldering iron. Once the solder melts (fairly quickly), I remove the iron and hold the parts together until the solder becomes solid again. You can tell if you have a good solder joint if the cooled solder is shiny. Dull-gray solder means you have a bad joint. You can fix it by melting the solder again.

If you have a place where two tracks run parallel, you can install jumpers between the tracks (shown in the lower photo) instead of using more feeders.



Since feeders are hard to hide in N scale, David solders them to the underside of the rails or rail joiners before he lays the section of track.



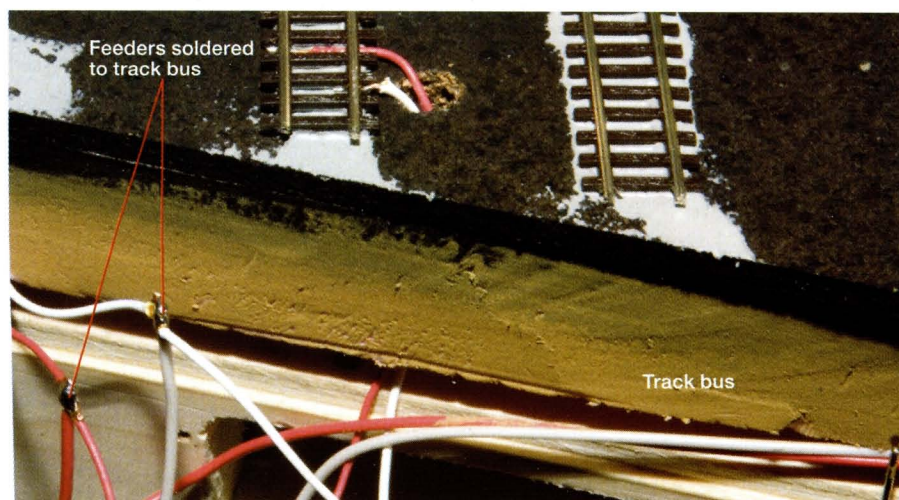
In places where tracks run parallel and are part of the same circuit, you can use jumpers, as shown here, to feed the new track.

CONNECTING TO THE BUS

Before I lay the track on the layout, I mark the position of the feeder wires on the roadbed. I then drill $\frac{1}{4}$ " holes in the layout for the feeders, as shown in the illustration on page 49.

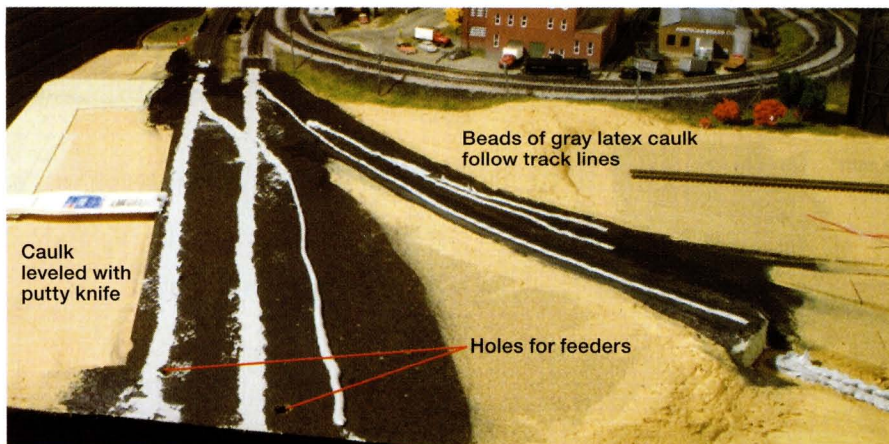
Once I've laid the track (shown in the next step) I trim the feeder wires to their final length, strip a $\frac{1}{4}$ " of insulation from the ends of the wires, and tin the ends in preparation to connect them to the track bus wires.

Since I have a small layout, I used 18 gauge wire for the track bus, but 16 or 14 gauge wires are better choices for larger railroads. To connect the feeders to the bus wires, I carefully strip about $\frac{3}{8}$ " insulation from the bus wire and tin the exposed wire. I then hook the end of the feeder around the bus and heat it with the soldering iron to make the joint.

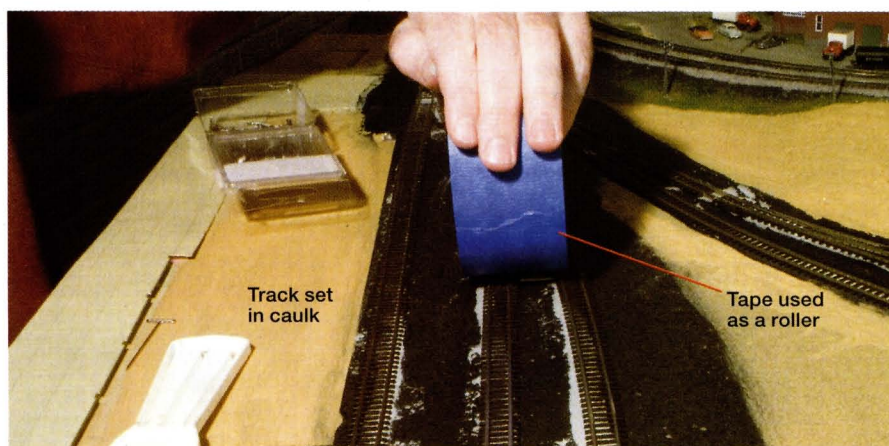


Once the track is laid, slip the feeders through the holes in the scenery and solder them to the track bus. David used 18 gauge wire for his track bus.

LAYING TRACK



The track is affixed to the layout with latex caulk. After laying a bead of caulk along the track centerline, David leveled the bead with a putty knife.



To seat the track into the caulk, David used a roll of masking tape as a makeshift roller. Be sure to clear away any caulk that oozes over the tops of the ties.

Once I had the track sections assembled and wired, I was ready to start installing them on the layout.

I began by test-fitting the sections. After I was satisfied with the position of each section, I marked its track centers at key points on the roadbed with a fine-tip marker. I also marked where the switch points would be located. I then removed the track and set it aside.

To lay the track on the layout, I first applied narrow beads of DAP gray latex caulk along the track centers. Then, as shown in the top photo, I used a putty knife to level the beads of caulk so that they were about half the thickness of the tie strips on the Peco code 55 flextrack. I then scraped off the caulk where the turnout points had been marked to keep the adhesive from rendering the turnouts inoperable.

Getting the caulk to the correct thickness is a bit of a balancing act. You don't want the caulk to be too thick, or it will ooze up through the ties and make it difficult to ballast the track later. If the caulk is too thin, it won't hold the track in place. It takes a little practice to get it just right. In case of a disaster, latex caulk is water soluble, so you can clean the track and try again.

With the caulk prepared, I connected the end of the track section to the previous one and then pressed the track into the caulk. Using a roller (lower photo) will help work the track into the caulk and achieve good adhesion.

INSULATING FROG RAILS



To make sure the insulating rail gaps wouldn't close up with expansion, fill them with a piece of .010" styrene, cemented in place with CA.

I used Peco Electro-frog turnouts on the layout. This has what is called a "live frog," meaning that the frog is powered. Powered frogs are very helpful when running short-wheelbase locomotives. However, powered frogs also require that the two rails leading away from the frog are insulated, or they can cause a short circuit.

There are several ways you can insulate rails on a layout. The simplest is to use plastic rail joiners. While these just take the place of an ordinary metal rail joiner, N scale insulated rail joiners tend to be rather large, and don't look very realistic when photographed.

Instead, I chose to cut gaps in the rail once I'd cemented the track to the layout (shown in the left-hand photo). To cut the gaps I used my motor tool fitted

INSULATING (CONT'D)

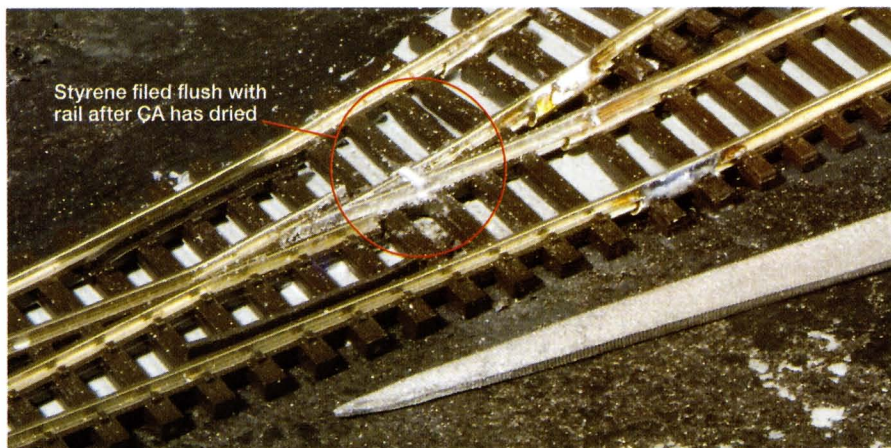
with a cutoff disc. The gaps run through the rails just in front of the frog on the turnout. On Peco turnouts, be careful you do not cut too close to the frog, since you can damage the rails that make up the frog parts.

While you can leave the gaps as they are, expansion and contraction of the rail on a layout can be sufficient to eventually close the gaps and cause a short. Therefore, I use small scraps of .010" styrene to plug the gaps.

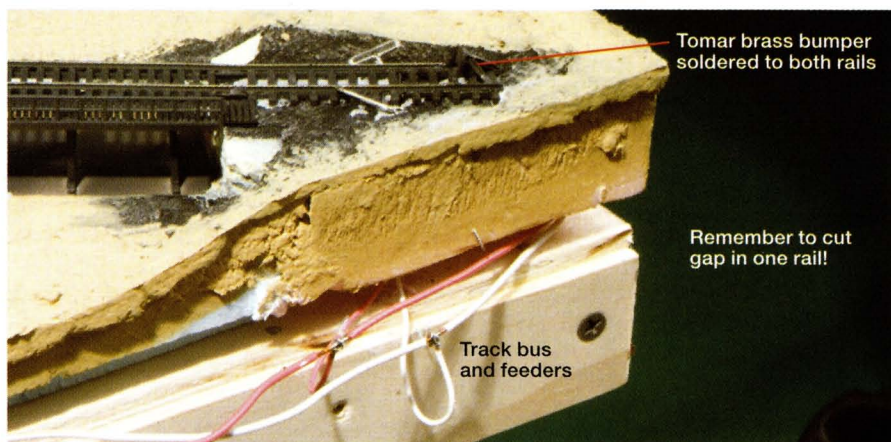
I start by cementing the styrene into a gap with cyanoacrylate adhesive (CA). Once the CA has dried, I trim away the excess styrene with a sharp hobby knife. I then use a needle file to shape the styrene plug to match the rail.

As shown in the photos, I used white styrene for the plugs. Even though I paint the track, eventually, the white can show through, especially on top where the railhead is worn from use. A better choice would be to use gray or black styrene for this project.

One other piece of trackwork on the industrial district needed to have an insulating gap. The Tomar brass bumper that I used at the end of the coal dock is soldered to the rails. Since the bumper is made from small pieces of metal, it will cause a short circuit unless insulated. As explained in the lower photo, this is a point I forgot in my haste to get the layout finished on time. You can easily insulate the bumper by cutting a gap in one of it's two rails.



Once the CA is set and the styrene insulator is firm, cut away the overhanging styrene with a hobby knife and file the rest flush with the rail.



After soldering the Tomar brass bumper in place, David forgot to cut the gap to insulate it. A half-hour of frustration followed as he looked for the short circuit.

TESTING THE WORK

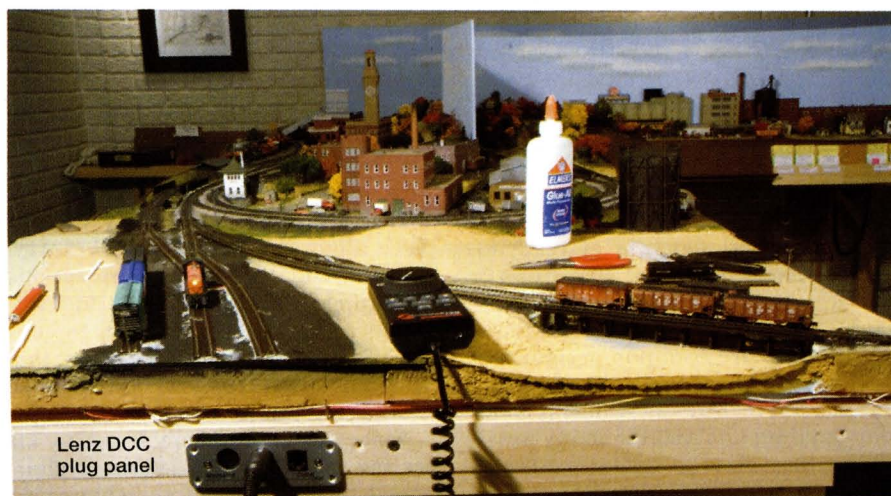
With the track laid and wired, it was time to test it. I selected several cars and one of my most finicky engines and ran them through every bit of new track.

I was looking for places that may cause problems, and here and there I discovered I needed to do a bit more filing on rail joints. I also found a few places that the rosin flux hadn't been completely cleaned from the rail.

Once I was happy with how the track ran it was time to work on scenery, which is the subject for next month.

More on our Web site

For an up-close look at the projects from week 1 and 2 of the Waterbury Industrial District, view the subscriber-only bonus video clips for this story at www.ModelRailroader.com



With the track installed and wired, David tested the work to make sure locomotives and cars would run well on the new section.

Author Roger Holmes enjoyed working outside of the box when he built this prize-winning entry for Walthers' 2007 N scale modular building contest.



Constructing a modular building with odd angles

Acute and obtuse corner angles help shape this distinctive N scale structure

By Roger W. Holmes
Photos by John S. Evans

There is no shortage of ready-to-assemble industrial structures or warehouses available to modelers working in N and HO scales. But many of these kits are common designs featuring four square walls. That's why I was pleased to discover Walthers' modular building kits and the many possibilities they offer to create industrial structures with intriguing designs.

Real industrial structures built with right-angled square walls are common-

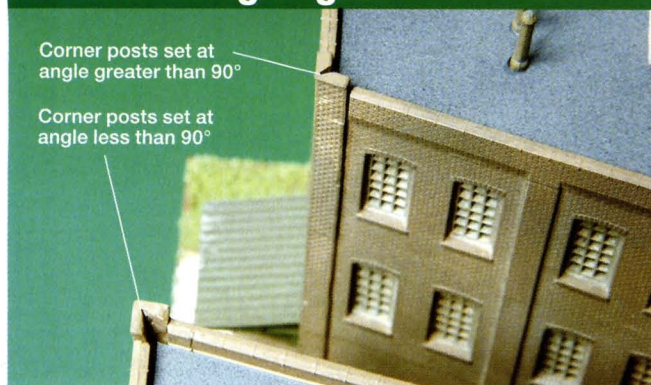
place along the railroad right-of-way. However, there are plenty of exceptions stemming from the need to bring railroad tracks close to industries in congested urban areas. In some cases, this results in structures with odd-angle or even curved walls.

Since I rarely build any structure kit per the included instructions, I challenged myself to build an odd-angled industrial structure using various Walthers modular components. My resulting

American Supply complex is made of two buildings bisected by an angled railroad siding. Though my structure uses Walthers N scale modular components, the techniques I used also applies to its HO scale modular components. **MR**

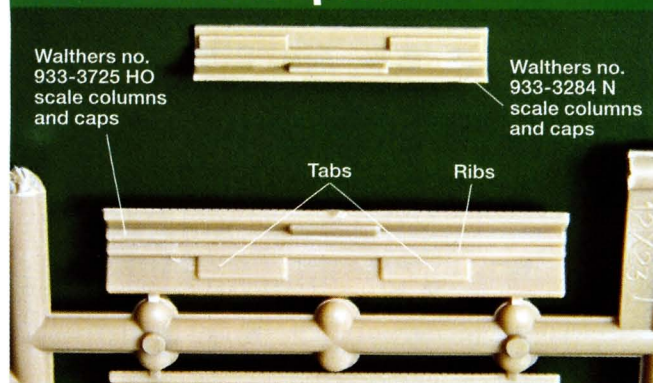
Roger Holmes is a trial court judge in Springfield, Ill., and has modeled the Milwaukee Road in N scale since 1970. He has three grown children and is an accomplished stage show drummer.

1 Interesting angles



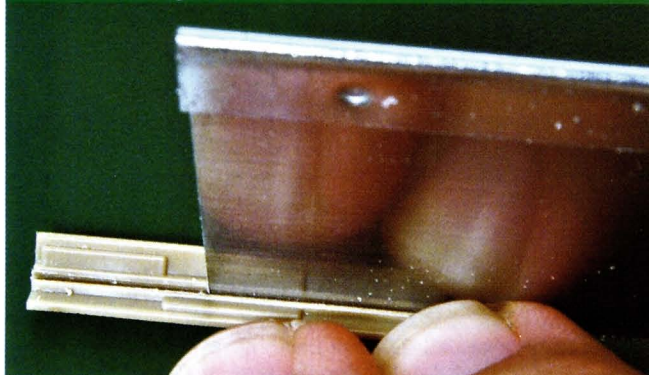
The key to creating this architecturally interesting industrial structure is to modify some of the L-shaped corner posts (pilasters) to complementing angles greater and less than 90 degrees. While the corners shown here allow the structure walls to parallel the diagonal track, the outside corners of the two buildings are set at 90 degrees.

2 Stock corner posts



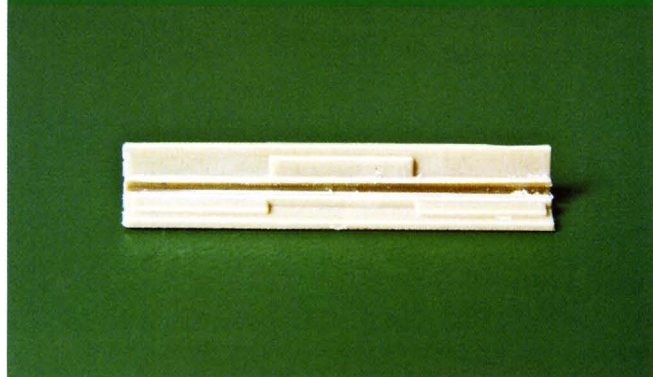
Walthers Cornerstone Modulares have a variety of wall, foundation, roof, column, and cap components for both HO and N scale structures. Modifications to the stock corner posts, shown here, must be done in such a way that the angle of the post can either open or close, yet still join two wall components securely.

3 Cutting corners



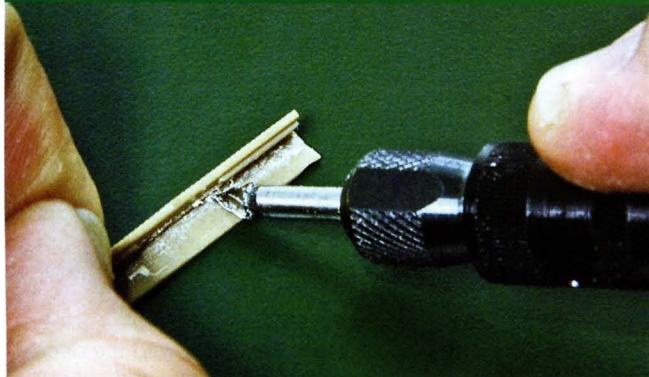
A razor saw equipped with a fine-tooth blade works well to modify the corner posts. After securing a corner post on a non-slip cutting surface, I used the saw to scribe into the crease at a 45-degree angle. These N scale parts are small to handle, so work deliberately and use the two support ribs on the inside of the post to help guide the saw.

4 A shallow cut



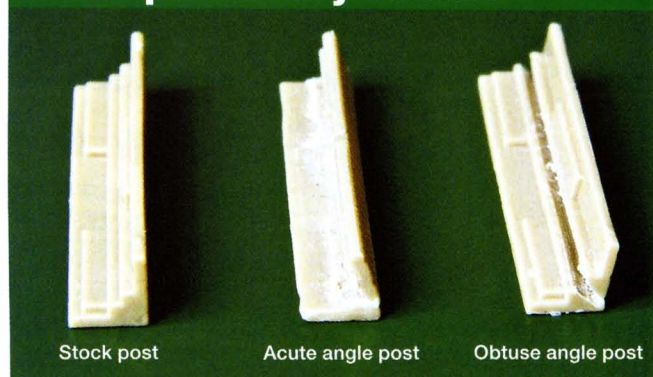
Avoid cutting entirely through the post by using light strokes. Test the depth by removing the saw and inverting the corner post so that the crease faces down on the cutting surface. Then use your thumb to apply light pressure at the joint of the post. When you can spread the post to the desired angle, the cut is deep enough.

5 Acute angle posts



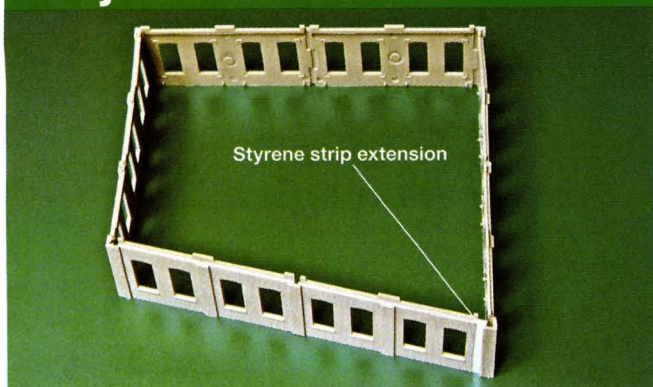
To form an acute angle corner, use a motor-tool to carve away the mounting tabs from one side of the post. It's necessary to remove these tabs to allow one side of the post to bend closer to the opposite side. You'll also need a flat surface on the inside of the post to secure a filler strip.

6 Complementary corners



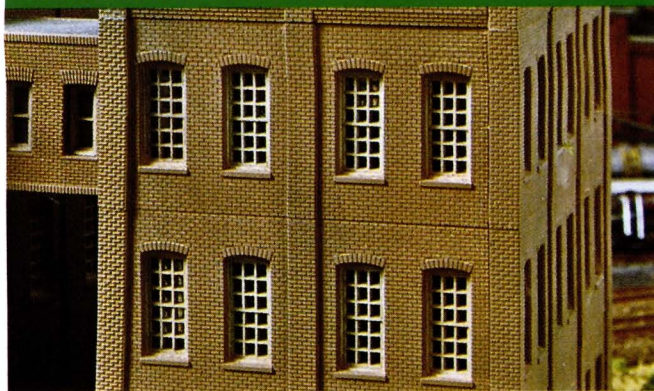
Each corner post modified with an obtuse angle needs to be paired with a post set at a complementary acute angle. After shaping the first pair of corners to the desired angles, I repeated the process until I had enough posts to complete my multiple-level structure.

7 Styrene wall extension



The rear wall of the main building is one bay wider than the front. As a result, the angled side wall will be too short to span the distance between the front and rear walls. To bridge this gap, I used cyanoacrylate adhesive to attach piece of .080" x .125" styrene strip at the end of the wall.

8 Stacked walls



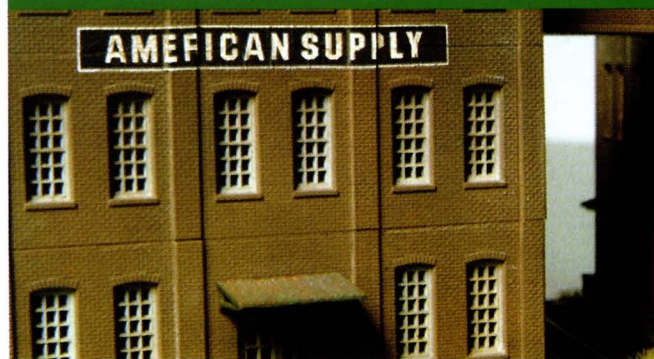
After repeating the previous steps to construct walls for multiple floors, I stacked the walls to the desired height. Next, I spliced a wall cap section for the extended wall then trimmed the foundation to accommodate the wall angles. Finally, I added a roof made from sheet styrene.

9 Bridged buildings



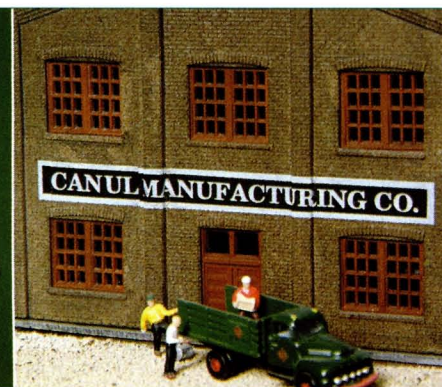
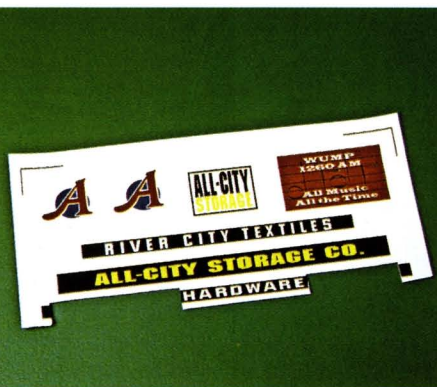
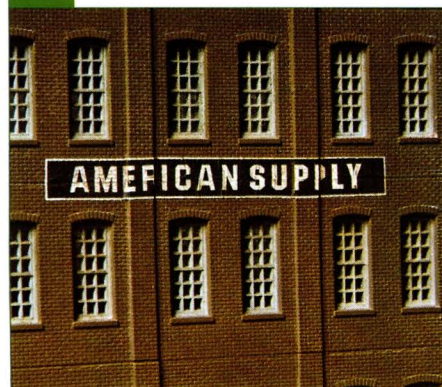
Because the two parts of my industrial structure are separated by a railroad track, I needed a way to connect them. A connection at track level wouldn't be logical, so I used Design Preservation Models (DPM) components to form an enclosed bridge between the third floors.

10 Paint and details



I used Tamiya no. AS-22 Dark Earth spray paint the walls. Next, I added roof details, decals, and chalk weathering. Finally, I mounted the two buildings on 1/8" thick model aircraft plywood, which matches the height of the N scale cork roadbed I use on my layout.

Modifying decal sheets



Just as commercial structure kits are ripe for modification, so too are the decal sheets or dry transfer graphics that accompany them. It's easy to swap decals between kits, but with a little work, a sharp hobby knife, a metal straight edge, and decal setting solution, you can create unique signs for your kitbashed structures.

For my American Supply structure, I borrowed the decal from the Walther's American Hardware Supply and cut out the words "American" and "Supply" from the sheet. The white border around the words made it easy to align the two words on the structure. Using decal setting solution and weathering makes the seam difficult to detect. — R.H.

DC / DCC DEALERS ASSOCIATION

Now Get the Superb QSI DC/DCC Sound & Power Decoders for Your Whole Fleet!

S. CAROLINA

Charleston Digital Trains
www.charlestondigitaltrains.com
1352 White House Blvd.
Charleston, SC 29412
843-795-3082

U. KINGDOM

Digitrains (United Kingdom)
www.digitrains.co.uk
The Stables, Digby Manor
North St, Digby, Lincoln LN4 3LY
01526 328633

WISCONSIN

EngineHouse Services LLC.
www.enginehouseservices.com
2737 N. Packerland Dr., 2H
Green Bay, WI 54303
920-490-4839

OKLAHOMA

Erailhobbies
www.erailhobbies.com
3306 W Charles Page Blvd.
Tulsa, OK 74127
918-382-0382 • info@erailhobbies.com

ONTARIO

George's Trains Ltd.
www.georgestrains.com
1-905-470-6200 Markham Store
1-416-489-9783 Toronto Store
1-877-8TRAINS (887-2467) Toll Free

FLORIDA

Johns Hobbies
www.johnshobbies.com
1507 S.E. 150th St.
Summerfield, FL 34491
800-800-7203

PENNSYLV.

Lin's Junction
linsjunction.com
Lin's Junction, 128 S. Line Street
Lansdale, PA 19446
215-412-7711

CALIFORNIA

Original Whistle Stop, The
TheWhistleStop.com
2490 East Colorado Blvd.
Pasadena, CA 91107
626-796-7791 • fax 626-796-7566

VERMONT

Tony's Train Exchange
TonysTrains.com
57 River Rd, Suite 1023
Essex Junction, VT 05452
800-978-3472 • 802-878-5005

MASSACHUSETTS

Traintek, LLC
www.TraintekLLC.com
(Formerly Tracksides Sales)
Waltham, MA 02451
1-888-339-TRAIN (8724)

NEW YORK

Willis Hobbies
www.willishobbies.com
300 Willis Ave.
Mineola, NY 11501
516-746-3944

CALIFORNIA

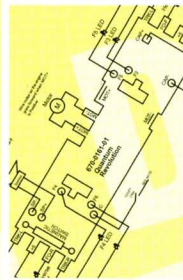
Allied Model Trains
www.alliedmodeltrains.com
4371 S. Sepulveda Blvd.
Culver City, CA 90230
310-313-9353

CALIFORNIA

Bruce's Train Shop
www.brucestrainshop.com
2752 Marconi Avenue
Sacramento, CA 95821
916-485-5288 • 877-276-8383

COLORADO

Caboos Hobbies
www.caboos hobbies.com
500 South Broadway
Denver, CO 80209-4002
303-777-6766



Quantum Revolution

Advanced technology DC/DCC sound & power decoder suitable for aftermarket applications for non-sound HO/O locomotives.



Quantum Aristo (PnP)

Sound and power decoder for Aristocraft® locomotives designed to plug into the Aristocraft motherboard common on most of their G-gauge locomotives.



Quantum Magnum

Universal G/O scale sound & power system designed to install into most "G" gauge locomotives. The compact size and features make this an excellent option for aftermarket installations.



Quantum Programmer

Download sound files from your PC and program CVs. Interfaces between your PC and a program track.

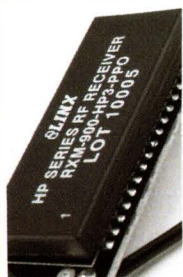


Quantum HB/HP Speakers

High Bass and High Performance speakers delivering significantly better sound.

Quantum Engineer

For DC ops. Advanced analog controller. With Quantum Engineer, you can operate features that are otherwise available only in DCC plus features that are not yet available in DCC.



Quantum GWire Receiver

Compatible with CVP Products AirWire™ wireless DC/DCC throttles. For both battery and track power applications.

*AirWire™ is a trademark of CVP Products, Richardson, Texas



Quantum Upgrade Chip

Upgrade your QSI equipped Broadway Ltd, Atlas Gold, or Proto 2000 locos.

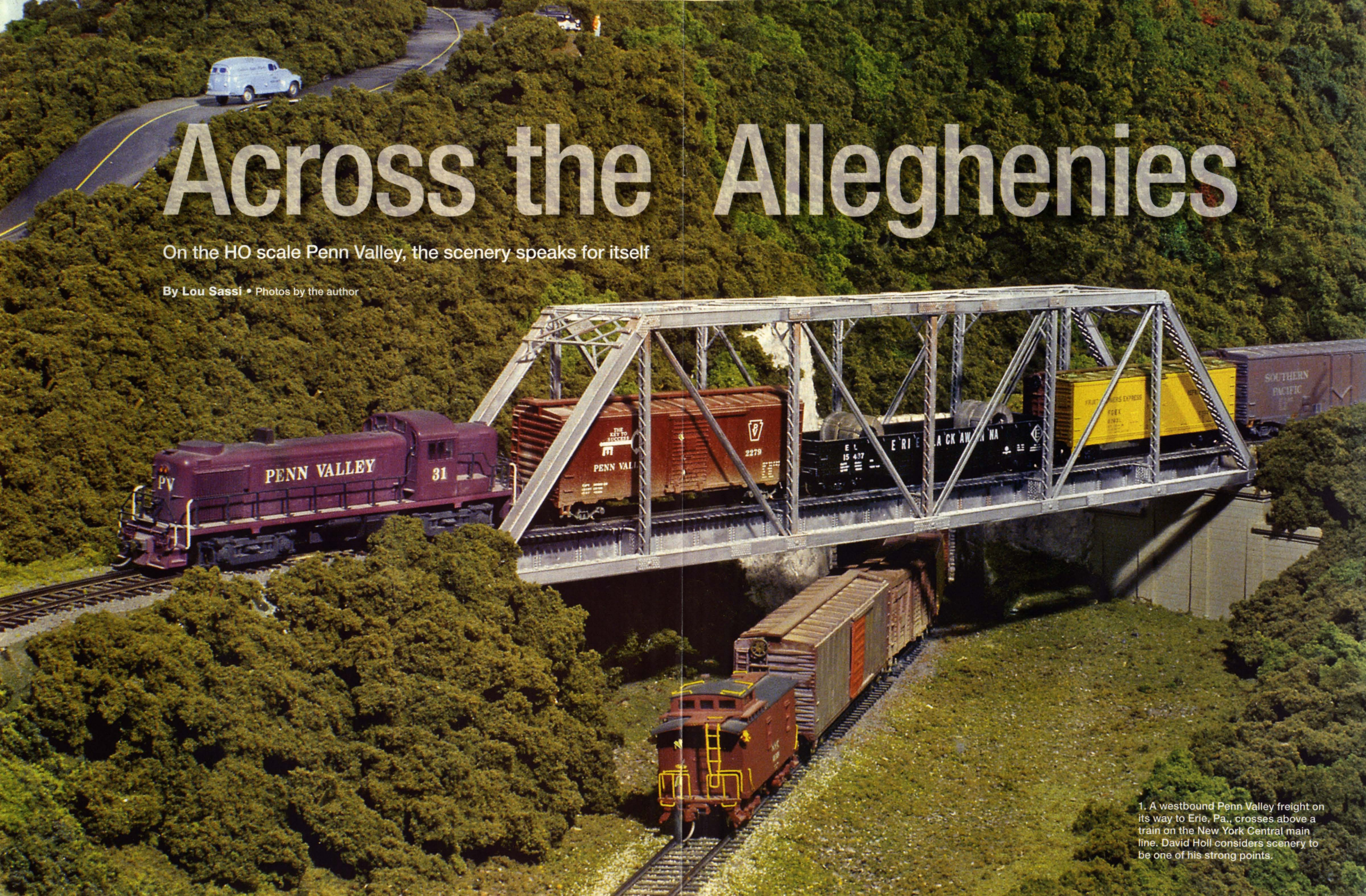
The DC/DCC Dealers' Association

An honest dedicated group of dealers you can count on ... folks like yourselves who like model railroading, and who have joined together to sponsor this ad to provide the best DC/DCC options for you. If you are a knowledgeable DC/DCC dealer, dedicated to customer service and support, who would like to join the DC/DCC Dealers' Association, please call 800-671-0641 or email: dealers@amhobby.com

Across the Alleghenies

On the HO scale Penn Valley, the scenery speaks for itself

By Lou Sassi • Photos by the author



1. A westbound Penn Valley freight on its way to Erie, Pa., crosses above a train on the New York Central main line. David Holl considers scenery to be one of his strong points.



Though David Holl enjoys all aspects of model railroading, he calls scenery his strongest suit. He says he approaches railroad building as the prototype does, adapting the track to the scene rather than the other way around.

"Each scene has a story to tell, whether it's a rural area with rock formations and forests or a detailed city scene with realistic people, cars, and buildings," he says. "Although the hob-

2. Westbound freight No. 45 heads through the S curve in Black Mountain, Pa. David Holl's HO scale Penn Valley layout is a freelanced bridge line that crosses the Allegheny Mountains in Pennsylvania.

by is called model railroading, I view it as 'model reality.' I establish a scene and then decide how the railroad fits into it."

David has tried to achieve a balance of realistic urban and rural scenery on

his HO scale railroad, the Penn Valley. The layout features a succession of big towns with many scale acres of countryside between them.

David got into model railroading when he was a high school sophomore. An accident put him in a neck brace for six months, and he whiled away the time building HO scale models. Once the brace came off, he built his first layout, following a track plan from *Small Layouts You Can Build* (Kalmbach Books, now out of print). Since then, David has built five layouts, including three previous incarnations of the Penn Valley.

The current Penn Valley represents a bridge route between Allentown and Erie, Pa., connecting the Pennsylvania RR and the New York Central in late 1957. The track plan is David's design, and has a 2½ percent ruling grade that requires helpers on longer trains.

David's favorite scene on the layout is the city of East Eiser. Although it's a fictional location, he tried to make it look like a real place. The scene starts from the left where the outskirts of the city begin with a farm, private homes, a hospital, some factories, and then the downtown. There are more than 20 structures in the downtown area, with plenty of details such as people, vehicles, signs, and streetlights. To the right are the railroad yards, with Union Station dominating the scene. The station hosts three railroads – the Penn Valley, the Pennsy, and the freelanced East Eiser & Rocky Bottom RR. (And if that wasn't enough, elsewhere there are interchanges with the New York Central and the Lehigh Valley.)

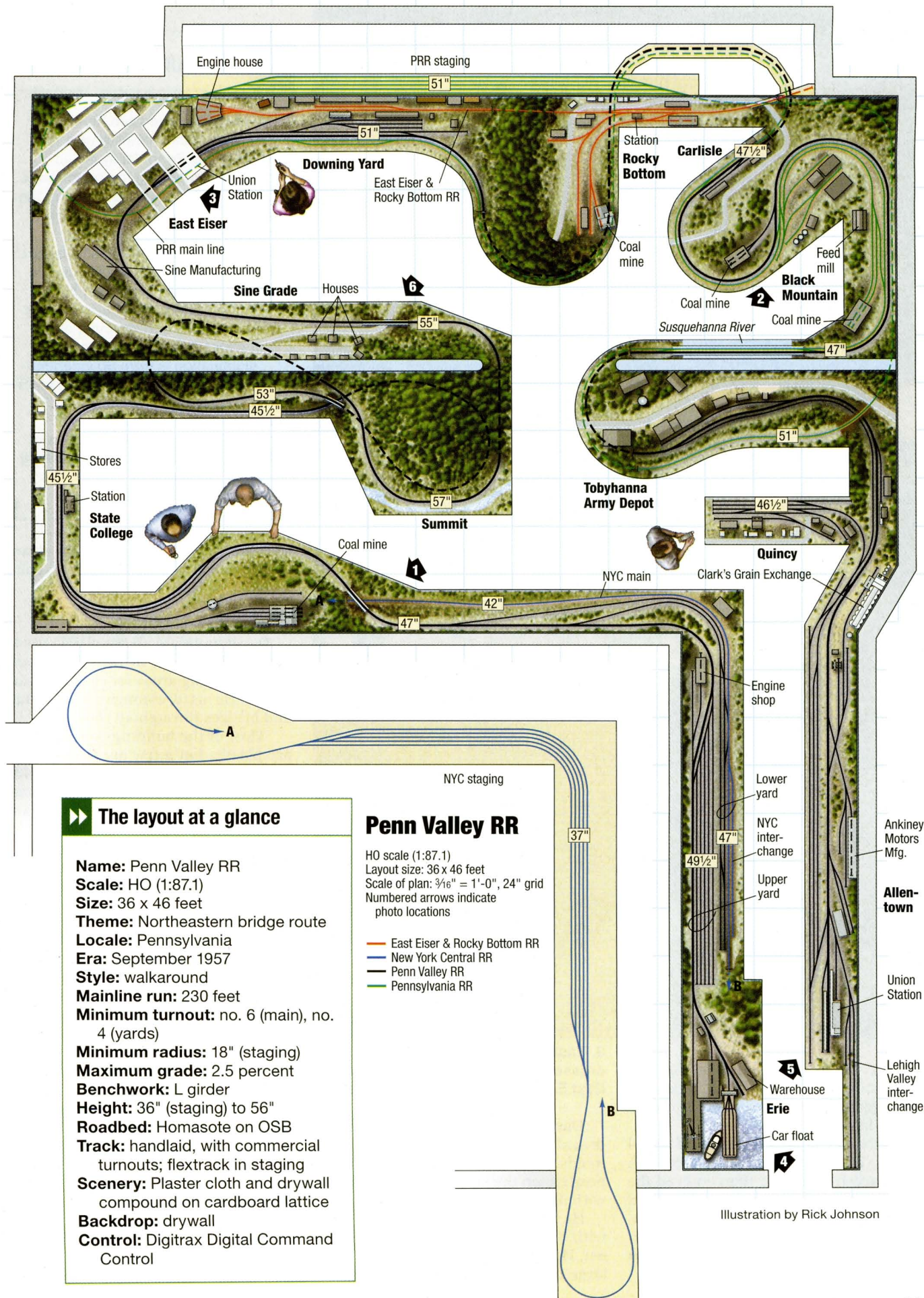
Construction

David started preparing his basement for the layout in 1999. He placed a plastic vapor barrier against the outside walls, then installed studs around the entire basement. Next came insulation and wiring.

After he installed the drywall, David painted it sky blue and stenciled clouds with white spray paint.

David began the layout in 2000 with L-girder benchwork. To shape the basic landforms, he wove a web of cardboard strips, which he anchored to the benchwork with staples and hot glue. He protected the floor with plastic drop cloths, then made a hardshell using paper towels soaked in Hydrocal. But as construction on the layout progressed, David changed to plaster-impregnated gauze, which proved to be less messy.

Over this plaster shell, David spread a ¼"-thick layer of lightweight drywall compound to smooth it and refine its





3. Eastbound local freight No. 172 crosses under Main Street Bridge in East Eiser and enters Downing Yard.

shape. While the drywall compound was still wet, he inserted pieces of toothpicks to anchor foliage he would apply later.

Once the hardshell had dried for 24 hours, David sprayed the surface with dark green paint. He then covered the countryside with a variety of ground foam from Woodland Scenics and attached the company's clump foliage to the toothpicks to represent shrubs and tall weeds.

David made rock castings from Hydrocal poured into homemade rubber molds. Once he affixed the rocks into position on the layout, he colored them with diluted acrylic paints.

He made small creeks and runoffs with Enviro-Tex, a two-part resin product. However, he made the water in the large dockside scene in Erie by paint-

Museum presentation

David took a cue from museum dioramas when planning how to show off his Penn Valley layout.

After completing the benchwork, David built a brown fascia along the edge of the layout and a lighting valence above it. The valence follows the path of the fascia below, framing the railroad like a museum display. A brown cloth skirt hung from the bottom of the fascia hides staging tracks and anything else that might distract from the view.

Illumination is from 60 incandescent bulbs, grouped in circuits of 15 bulbs, each circuit with its own dimmer switch. This lets David control lighting in different parts of the layout separately. Also, for night scenes, he strung 800 blue Christmas lights behind the valence.

ing the surface of oriented strand board (OSB) a dark turquoise color, followed by three coats of shellac.

Track and structures

David handlaid all the visible tracks but used flextrack in the tunnels and hidden staging areas for ease of installation. He used commercial turnouts and bridges throughout the layout.

Most of the buildings on the layout are plastic, but a few are wood. About 20 percent of David's structures are kit-bashed. After painting the buildings, he weathered them with pastels and India ink washes.

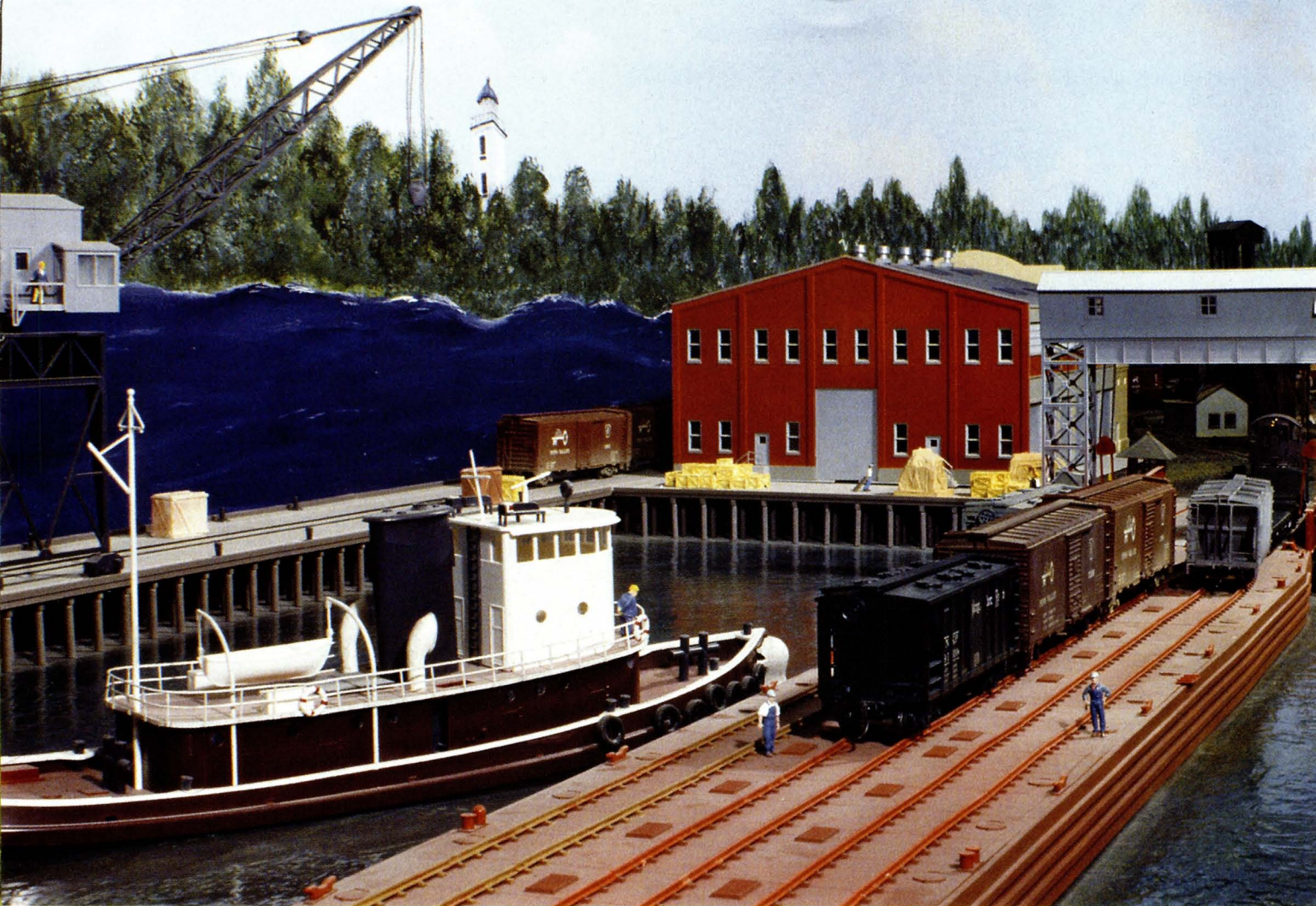
Most of the residences on the layout have either curtains or blinds in the windows; others are boarded up. This is to keep the buildings from looking like empty shells.

David says that when he works on the layout, he varies his tasks to keep from getting bored. "I would do some scenery, switch to track laying, and then to building structures," he says. "Doing it this way kept me constantly thinking of new things to do. It took the monotony of the different phases of the hobby away."

This technique also kept the project moving. "I didn't want to take 10 to 15 years to build my layout. None of us is getting any younger," he says.

Rolling on the railroad

David's collection of rolling stock is appropriate for the mid- to late-'50s time period he models. Freight cars are mostly from the Pennsylvania, the New



4. A tugboat waits while a PV switcher with an idler flatcar unloads the car float in Erie, Pa. The lake water was made by layering three coats of shellac on a base of oriented-strand board painted turquoise.



5. A pair of Electro-Motive Division FP9s pull Penn Valley passenger train No. 12, the *PeeVee Flyer*, up to the platform at Allentown's Union Station, where a few passengers are waiting.

York Central, and of course Penn Valley, with a sprinkling of others mixed in, mostly from the Northeast. The railroad also sports a few unique Pennsy cars, such as K9A and K1i stock cars and X31F "turtle top" box cars.

He weathers the majority of his freight car fleet using an airbrush to lightly spray a very diluted mixture of Grimy Black and gray paints. He further weathers some cars with black, rust, and gray powdered pastels.

David's favorite diesel locomotives are Alco RS-1s and RS-3s for freight work, and Electro-Motive Division FP9s for his passenger trains. Not coincidentally, these diesels are also the favorites of the Penn Valley management. David is gradually adding sound to the layout;

one of the RS-3s and two of David's steam engines are sound-equipped.

Operations on the Penn Valley

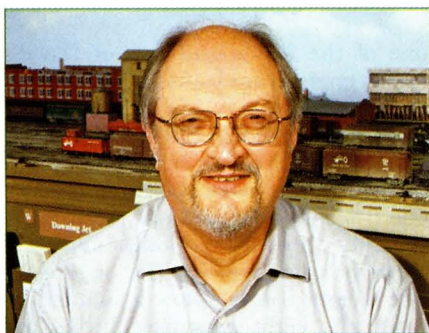
Two local freights run the length of the Penn Valley each operating session, one traveling east and one west. Each switches only trailing-point industries, simplifying things for the engineers. The freight trains follow a switch list, while the eight passenger trains per session move according to a timetable. By studying Pennsy and NYC timetables from the late 1950s, David was able to plan his own trains' timetables so they can make connections with both of those railroads.

David has used a waybill/car card system for routing freight cars for more than 30 years.

The railroad is controlled by a dispatcher, using orders delivered by radio to direct train movements. Since David uses DCC, the dispatcher controls only the turnouts on the main



6. A hotshot trailer-on-flatcar (TOFC) train crosses Sine Grade Bridge on its way to Erie, Pa., where the New York Central will take the train to its ultimate destination of Chicago.



► Meet David Holl

David Holl received his first model train, a Lionel set, as a Christmas present when he was 8 years old. David has been a model railroader ever since, and he is now a life member of the National Model Railroad Association. The current Penn Valley is his fifth layout; a previous version was featured in *Great Model Railroads 1999*.

line; train operators must align those on sidings. A track-detection system allows the dispatcher to monitor train movements from his control panel.

In addition to the dispatcher, other jobs filled during an operating session include the Bay View yardmaster in Erie, Pa., Downing yardmaster in East Eiser, Pa., Allentown yardmaster, and four road crews. David acts as adviser and troubleshooter.

Operating sessions last about three hours and run against an 8:1 fast clock, meaning a session covers 24 hours of layout time. Fifteen trains will run during a typical session.

"For the first couple of sessions, trying to teach eight people how to use DCC throttles, where the towns were, and which train did what job was quite a task," David says. "But as time has progressed my crew now understands the method of my madness. Obviously, there is a learning curve."

Missions accomplished

David says that when he set out to build the Penn Valley, he had two goals in mind: to build a realistic-looking, fun-to-operate railroad, and to use that experience to build friendships with

his fellow hobbyists. He says he has accomplished both.

"I wanted to allow people who didn't have space for a layout of their own to come learn new techniques. I wanted those who had limited space to come work on and operate a layout that could be considered club-size. All they had to do was come to my home, and together we could develop their skills."

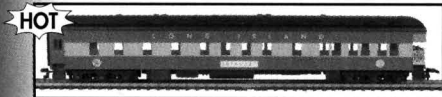
He credits his group of friends with making the layout possible. Without them, he says, "this dream layout would still be in the building stage."

As for his other goal, "I wanted realistic scenes, yet something different so visitors would remember my layout for something special. Visitors who have traveled through Pennsylvania have assured me that I've captured the scenery well, so I believe I have accomplished my goals."

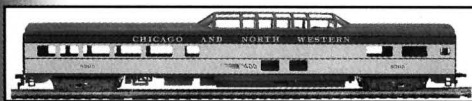
"I feel I have planned and built the railroad of my dreams, and now I enjoy sharing it with my friends. That is my real reward." **MR**

Lou Sassi is a railroad modeler, writer and photographer who regularly contributes to the pages of Model Railroader and Great Model Railroads.

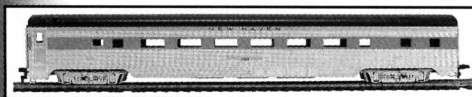
HO Passenger Cars in Heavyweight, Smoothside & Corrugated Side by IHC



Heavyweight — #49787 Long Island Railroad Observation
The Cannonball



Smooth Side — #48047 Chicago & North Western Vista Dome



Corrugated Side — #47361 New Haven Coach The Patriot

HO Smooth Side & Corrugated Side Passenger Cars

Body Styles
Baggage
RPO
Combine
Coach
Sleeper
Vista Dome
Dining Car
Observation

HO Heavyweight Passenger Cars

Body Styles
Baggage
RPO
Combine
Diner
Observation
RPO
Sleeper 8-1-2
Sleeper 12-1

IHC PASSENGER CAR CATALOG FREE WITH ORDER

24 pages depicting all of our passenger cars and matching accessories

IHC Passenger Cars are built-up scale length models that will operate on 18" radius track. The Heavyweight Series come with a package of easy-to-apply detail add-on parts. IHC's usual attention to correct color and lettering will allow you to be extra proud of your cars especially at these very low and most affordable prices.

See our Web Site for a complete selection of Passenger Cars plus Photos and other vital car data. Cars can be purchased individually or in eight car consists.

Only \$14.98 EACH

HO 8-Car Passenger Sets by IHC

List price on eight car sets is \$119.84

Only \$112.98 EACH SET

SAVE \$6.86 ON SET OF 8

IHC Premier Gold Series - DCC Ready & RP-25 Wheels

For those still operating in analog DC, the locos will have factory installed dual mode printed circuit board for DCC and DC operation. These engines are ready to accept a DCC plug and play module.

IHC now offers the following features in our Premier Gold Series Pacifics, Mikados and selected Semi-Streamline Pacific Locomotives.



HO 4-6-2 Pacific

Only \$139.98 ea.

25028 Union Pacific
25025 SP, Daylight
25021 Pennsylvania
25063 ACL, FDR Special
25005 Alton

25066 Rio Grande
25017 Milwaukee, Chippewa
SEMI-STREAMLINE
26022 Reading, Crusader
26007 DL&W



HO 2-8-2 Mikado

Only \$139.98 ea.

27000 ATSF
27001 Southern
27003 Chesapeake & Ohio
27009 Canadian National
27016 New York Central

27025 Canadian Pacific
27005 Great Northern
27021 Baltimore & Ohio
27024 CB&Q
27050 Kansas City Southern



**COMMAND
XXV**

**IMMEDIATE
DELIVERY**

LIMITED QUANTITIES ON
SOME LOCOMOTIVES

HO 2-10-2 Santa Fe

Only \$149.98 ea.

23402 Baltimore & Ohio
23403 Erie
23404 Great Northern
23409 Pennsylvania
23411 Southern

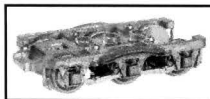
23412 Union Pacific
23416 Southern Pacific
23417 Western Maryland
23425 Canadian Pacific
23435 Rio Grande



HO 6 Wheel Metal Passenger Car Trucks for ALL Heavyweight Passenger Cars

by IHC

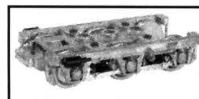
HO Scale Metal Super Fast Wheels, Sprung and Equalized. Adds 50% More Weight to Each Car. Integral, Snap-in Talgo Coupler Box Included.



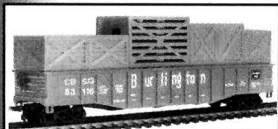
Reg \$24.98/pr.

SUPER SPECIAL \$12.98/pr.

- RP-25 Flanges
- Nickel Silver Wheels
- Fully Detailed Sprung Trucks
- One Side Insulated, Great for Interior Lighting



STYLES AVAILABLE
4257 Friction Bearing, Silver
4258 Roller Bearing, Black
4259 Roller Bearing, Silver



HO Sound Car

Only \$19.98 ea.

4300 Union Pacific
4301 Santa Fe
4302 Pennsylvania

HO Scale Track Cleaning Caboose

BACK IN STOCK!

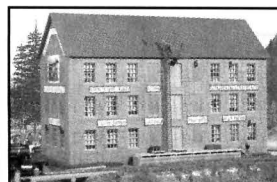
4355 Union Pacific
4356 Santa Fe
4357 Pennsylvania
4360 CSX
4368 New York Central
4369 Southern



\$17.98 each

4398 Track Cleaning Pads \$3.98/6 pk.

HO Building Kits



5047 Novelty Iron Works

HO SCALE

705 Tool Shed13.98
4940 Factory10.98
4941 Church10.98
5047 Novelty Iron Works19.98
4105 Church 5.98
5501 Wide Pier Set12.98
5505 Narrow Pier Set12.98
5513 Wide Pier Extension Set . 2.98
5514 Narrow Pier Extension Set 2.98
5515 Track Extension Pier Set . 2.98



International Hobby Corp.

DEPT. 10-2008 MRR • 413 E. ALLEGHENY AVE. • PHILA., PA 19134
(215) 426-2873 • FAX (215) 634-2122 • (800) 875-1600 (ORDERS ONLY)

Be Sure to Visit Our Website: www.ihc-hobby.com
For On-Line Ordering & On-Line Catalog

TRY YOUR FAVORITE HOBBY SHOP FIRST. Order direct from IHC. Order dept. open 9:00 a.m.-4:00 p.m. Eastern. We accept certified check or money order. MasterCard, Visa, American Express or Discover (supply card number, expiration date). Personal check, allow two weeks for clearance. Prompt full refund on out-of-stock items. **Minimum** Shipping charge is \$7.50. All Overseas orders are shipped by air. 15% Restocking Fee on Returns. Show Dept. # on order. Prices subject to change without notice.

Kitbash an SD10 Diesel



Easy methods for making a unique, yet accurate addition to your locomotive fleet

By Jim Volhard

Photos by the author

One of my favorite parts of any model railroad project is historical research. After finding information about the Milwaukee Road's SD10 fleet, I wanted to model this unusual diesel locomotive in HO scale. You'll find my techniques helpful for modeling your own SD10 or another unusual prototype diesel.

Origin of the SD10

By the early 1970s, many of the Milwaukee Road's first-generation diesels were wearing out, including its aging fleet of General Motors Electro-Motive Division SD7s and SD9s. At that time these six-axle locomotives prowled the railroad's secondary lines. The financially strapped railroad couldn't afford

new power, so it began to rebuild some of these units in March of 1974.

The prototype's modifications

Internally, the units received new wiring and brake upgrades. The SD10s were also upgraded with new 1,800-hp model 645 engines.

External modifications included a chopped nose and a large paper air filter housing. The underframe air tanks also were remounted.

A total of 17 SD7s and four SD9s had been rebuilt into SD10 locomotives when the Milwaukee Road ended the rebuild program in January 1976. See **fig. 1** for a prototype photo.

The Soo Line took over the Milwaukee Road in 1986 and at the end of that year sold 17 of the units to the Dakota, Minnesota & Eastern.

Modifying the underframe

Life-Like's Proto 2000 SD7 without dynamic brakes provides the best starting point for modeling an SD10.

For a Milwaukee Road unit, the first step is to remove the front half of the fuel tank. Before making any modification, you should strip the running gear and motor from the frame to avoid getting metal filings in them.

Intrigued by the SD10's history, Jim Volhard undertook an ambitious project to model one of these unusual rebuilt locomotives.

First, remove the front half of the tank and saw off the coupler mounting brackets flush with the bottom of the frame. Next, file a notch into each end of the frame up to the raised screw threads to clear new body-mounted couplers. Clean up the saw marks with a mill file.

With the front half of the tank removed, you must stabilize the motor housing. Start by cutting off the front half of the rubber motor mounts, then epoxy a 1/2" piece of .080" x .080" styrene strip on each side of the motor well.

The air tanks need to be repositioned to follow the prototype. Trim the mounting brackets on the tanks to match the tanks' straps. Cut a 3/8" notch into the top of the tanks to clear the front of the motor's frame, and then remount the tanks 3/4" in front of the remaining fuel tank casting. See **fig. 2**.

To lower the air tanks, epoxy a 1/2" length of HO scale 2 x 8 styrene strip to each side of the bottom of the frame. After the epoxy dries, cement the tanks to the strips. Do not remove the pipe between the tanks on the left side.

For the right side of the tank, cement a .020" styrene sheet to the rear of the fuel tank. Then trim the sheet's sides flush with the edge of the tank and the top of the motor frame.

Fashion four Z-shaped hooks from Detail Associates .010" x .030" flat brass wire to make hangers for the rerail frogs. Epoxy the hooks to the frame between the fuel and air tanks, as shown in **fig. 2**. The frogs will be added at final assembly.

Next, add the base of the speed recorder to the rear journal on the front right truck. Drill out the journal and install the base. The rest of the speed recorder will be added later.

To accommodate the lowered short hood, you can use a file or motor tool to grind down the top of the front weight, as shown in **fig. 3**.

Adjusting the body

First, disassemble the body shell with cyanoacrylate adhesive (CA) debonder. Use the exploded-view diagrams in the instruction sheet to determine which pieces come apart.

The short hood must be lowered a scale 3'-6", as shown in **fig. 4** on page 68. Cut a strip of masking tape to that size and position its top edge to just below the bottom of the hood curve. Use the tip of a sharp no. 11 hobby knife blade and lightly score the edge of the hood. Peel off the tape, then remove the material up to the scored line. Cement the top of the hood onto the body, fill any gaps, and file the seams. Finish the lowered hood by sanding off all traces of hood doors on the sides.

Next, add classification lights to the upper outside corners of the lowered nose. Detail Associates sells EMD classification lights that would work.

Drill a hole in the correct location and secure the class lights from the inside with liquid plastic cement. Once the classification lights are secure, drill a .025" hole through each one for later lens installation, then add the original sand filler hatch.

Only the ladder on the right side is needed. Remove the top rung as well as the side rails down to the top of the second rung. Then carefully remove the mounting brackets from the unused portion of the ladder. Position the shortened ladder on the shell and secure it using the bottom mounting pins.

The salvaged brackets will be repositioned halfway between the top two rungs. Mark and drill no. 78 holes for the mounting pins. The inside of the brackets should just touch the outside of the ladder rails. Secure the brackets



Fig. 1 The prototype. The Soo Line purchased the Milwaukee Road in 1986 and in that same year sold 17 SD10 diesels to the Dakota, Minnesota & Eastern. This 1986 photo shows ex-MILW no. 556 on the DM&E at Waseca, Minn.

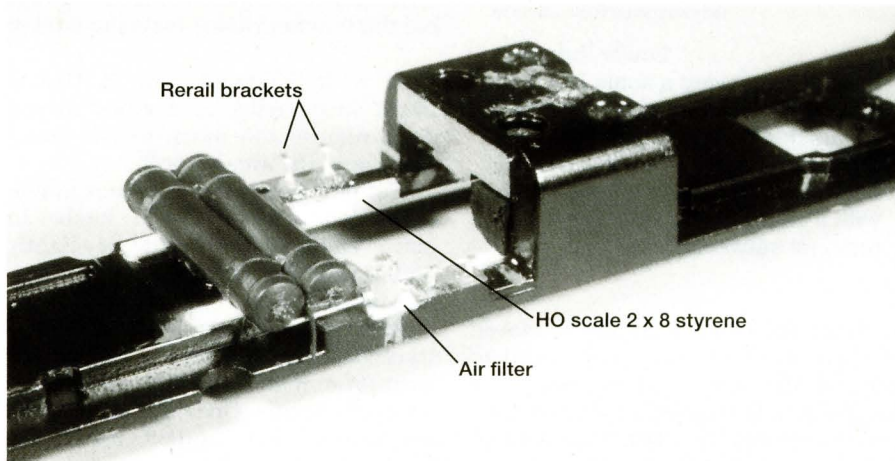


Fig. 2 Modified frame. The front half of the fuel tank has been removed, and the air tanks have been mounted in a new position. The detailing is completed with an air filter, piping, and Z-shaped brackets to mount the rerail frog.

from the inside with CA and remove the ladder. It will be cemented in place during final assembly.

Detailing the cab

Cab modifications (shown in **fig. 5**) include adding number boards and headlight assemblies as well as a new standard EMD windshield from a Cannon cab kit. Before installation, trim the windshield so that the top edges are even with the cab opening.

Hang the new number board from the alignment pins on the front of the cab and cement it in place. The top corners should extend slightly above the rounded roof. Once the cement dries, slice off the pins and fit small triangles of .010" styrene sheet behind the corners of the number board.

Drill holes for the windshield wipers, horn, rotary beacon, and headlights, but don't install these parts or the all-weather window on the right side of the cab just yet.

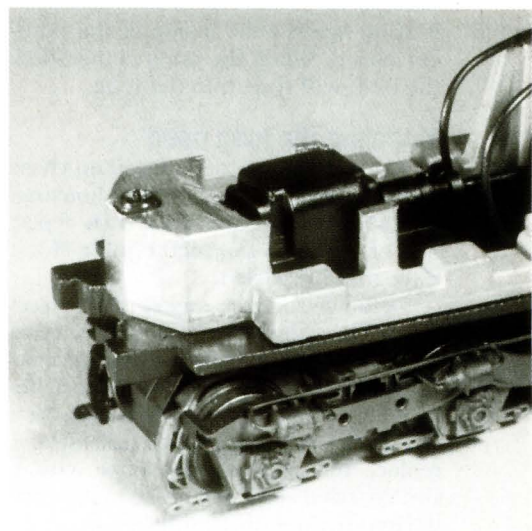


Fig. 3 Trimmed weight. Jim trimmed the top of the front weight so the lowered short hood would fit. He also removed the factory-installed coupler mounting brackets.

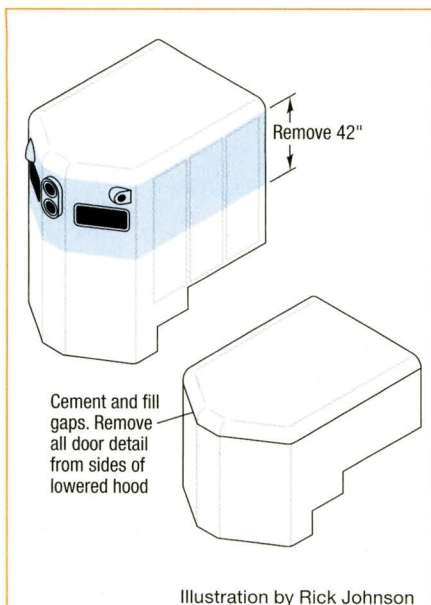


Fig. 4 Short hood. Lower the short hood by removing a scale 3'-6" middle section and cementing the top back on. Use masking tape to mark this section, then trace along both sides of it using a hobby knife with a sharp blade. Remove all the material between these lines.

Since the front headlight is moved to the roof of the cab, you'll need to conceal the wire that connects the headlight bulb. Apply CA to the wire for added stiffness then bend the wire so that it rests up inside the cab roof.

To prevent the cab from being lit, use CA to attach a 1" length of $\frac{3}{16}$ " brass tubing to the underside of the cab roof. This prevents one end of the bulb from butting against the inside of the number board. When the body is installed, the bulb will slide into the tube.

Modeling the long hood

The most prominent detail on these units is the air filter intake housing. The Milwaukee Road used two types, one of which is the rectangular Horst filter that I modeled.

Detail Associates makes the correct Horst filter, however it needs some extra work for this project. Start by narrowing the center filter body to a scale 6" before attaching the weather hoods. You can square the body using a mill file and replace the cast-on plate filter with a similar-sized sheet of styrene to improve the appearance of the finished hood, as shown in **fig. 6**. Set the hood aside as it isn't added until after painting.

Two sets of molded access doors need to be lowered to accommodate the Horst filter. Use a no. 17 chisel blade to scrape the top portion of the doors

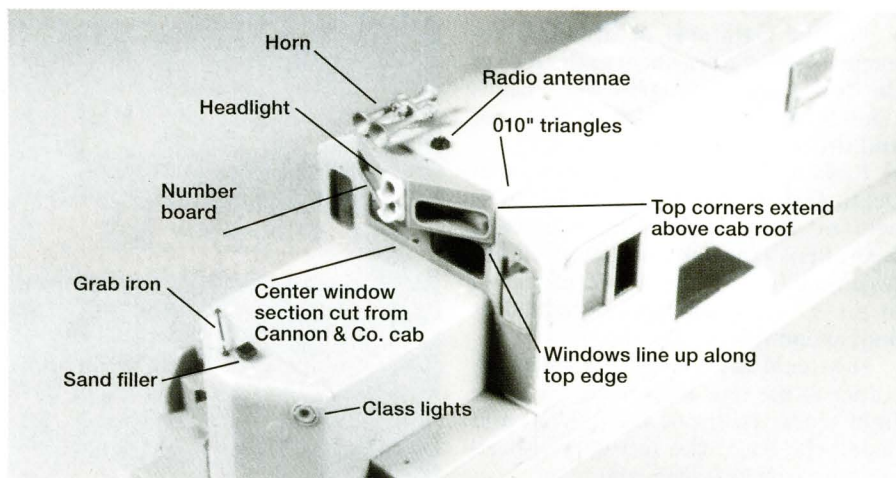


Fig. 5 Cab modifications. Jim cut the center window section from a Cannon cab and added it to the model. He then cemented the number board/headlight assembly to the front of the cab. Jim also drilled the roof beacon mounting hole, but the beacon wasn't installed until after painting.

flush with the hood surface. (Use a metal straightedge as a guide so you don't remove too much of the door.) Then sand the area smooth.

Cut new hood latches from Cannon & Co. doors and cement the latches in place. These latches should be slightly higher than the surrounding door surface, as shown in **fig. 7**.

Make new hinges from HO scale 1 x 2 styrene. Use two pieces in each hinge location to match the look of the cast-on hinge details. Once the hood doors are lowered and detailed, install the cover plates using CA.

Remove the cast-on exhaust stacks on top of the long hood and replace them with four new stacks. Two of the new stacks are in the same location, while the other two are located between them. Plug the unused holes on the roof with pieces of styrene.

Use a no. 17 chisel blade to remove the rear headlight housing. You can then cement the new Detail Associates headlight in place.

On the prototype, a winterization hatch covers the front radiator fan. Details West makes an accurate winterization hatch that fits this model. For my SD10, I scraped off that part's cast-in screen and added an etched screen that I had left over from another project. You can see the exhaust stacks and winterization hatch in **fig. 8**.

Couplers and pilots

Body-mounted couplers improve the look and operation of the model. Once the old coupler brackets are removed, build up two new coupler-mounting pads using stacks of six .040" Evergreen $\frac{1}{4}$ " tiles. Trim $\frac{3}{32}$ " from one end of each tile then cement them together.

Assemble the Kadee couplers. Use the longer shank no. 5 coupler for the front assembly to clear the snowplow. To locate the mounting hole, position the coupler box evenly with the front edge of the pilot extension and mark the hole location on the mounting pad. Drill a no. 50 hole and tap it for a 2-56 screw. Don't install the couplers until final assembly.

Remove the front and rear drop steps and fill the large notch in the top of the pilots with a .100" x .100" styrene strip. Also replace the chain from the middle of the front and rear railing with .022" brass wire.

The front m.u. plug needs to be moved from the left to the right side of the pilot, but don't add footboards to either pilot. Drill mounting holes for the snowplow on the front pilot shown in **fig. 9** on page 70, but don't attach the plow until after painting. Next add a .020" styrene extension to the rear pilot as illustrated in **fig. 10**.

Plug all mounting holes for the m.u. hose clusters, air hoses, uncoupling levers, and grab irons. At some point, new uncoupling levers with an upper loop were added to the prototype. You can mount the levers on the model with wire eye-bolts.

I added poling pockets by cementing Cannon & Co. 2051 EMD pilot lift tabs. I also added other details to the rear pilot, as shown in **fig. 10**. You can drill holes for the new m.u. hose clusters and brake hose, but leave these parts off for now.

Next extend the second and third pilot steps. An HO scale 1 x 6 styrene strip can be used for the second from the top step, and a 1 x 3 strip for the third step. Trim each strip to fit.

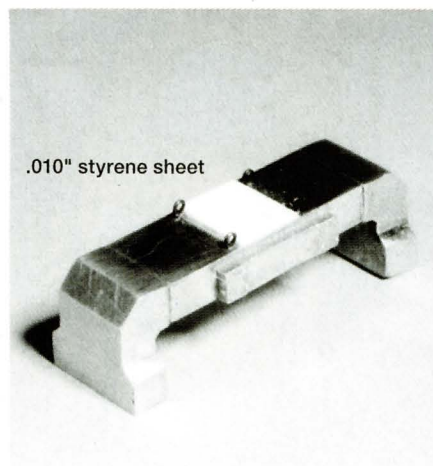


Fig. 6 Horst filter. Jim squared off the metal filter hood and removed its cast-on filter detail in the cleanup process. He then replaced it with a similar-sized piece of styrene sheet.

Painting the locomotive

I used Scalecoat paints to replicate the Milwaukee Road paint scheme on my SD10.

I recommend adding a primer coat of Floquil Primer mixed 50/50 with lacquer thinner. This not only adds an even-colored base for subsequent paint applications, it also allows you to spot any flaws in your work so that you can make corrections before applying the finish color. Let the primer coat dry for several days before adding the middle orange band.

My model represents a unit that has been exposed to the elements for over a decade, so the orange paint should be quite faded. I accounted for the color fading by adding 20 percent white to the orange.

Airbrush the orange band with a 75/25 paint-to-thinner mix. Make sure the color extends beyond the eventual color separation lines. Allow a few days for drying.

Next mask everything that will remain orange so the black can be applied. The orange should extend from the top of the walkway in a scale 4'-6"-high band. The only parts not orange in the band are the top of the battery box covers, which are painted black.

After everything is properly masked, spray the exposed cab area, trucks, underframe, number boards, and other miscellaneous parts black. I added 10 percent white to the black paint for a faded appearance. Remove the masking and let the parts dry for several days. You can use a small brush to touch up any problem areas.

You'll need to brush-paint several detail parts. Paint the windshield wipers and rear class lights silver. Use

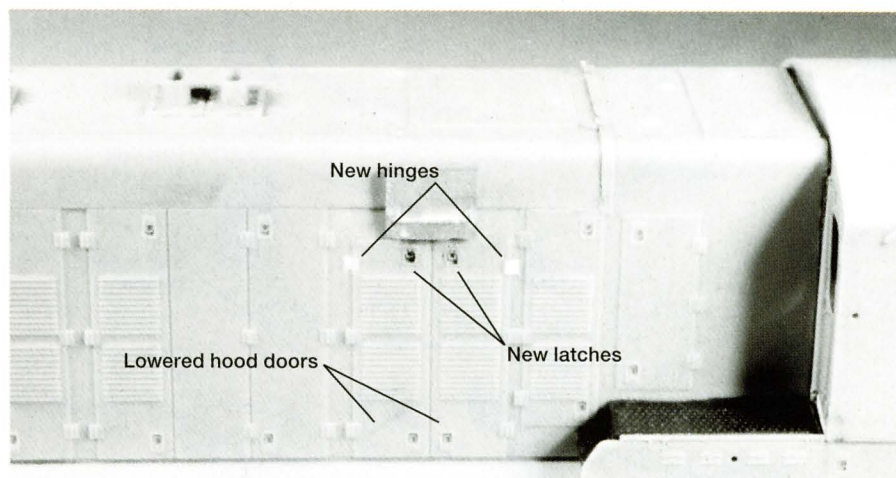


Fig. 7 Long hood details. Modifications for installing the Horst filter include lowering a set of access doors and adding new hinges and latches.

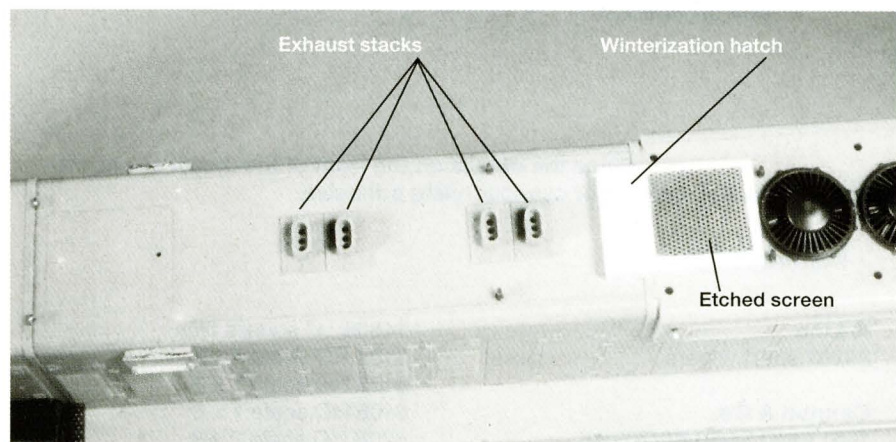


Fig. 8 Top view. Jim added four new exhaust stacks as well as a winterization hatch to the long hood. He also added an etched-metal screen to the hatch.

white for the step well handrails, the uncoupling levers, and the grab irons above the plow on the rear pilot.

I painted several of the hood latches CSX Tan to represent those that had been replaced. Finish by painting any other details that are unique to the particular unit you're modeling.

Next add decals to the model using Microscale Milwaukee Road diesel set 87-789 and MP Locomotive set 87-74 for the number board numerals. Follow photos of your prototype to accurately position the decals. I recommend using Microscale Micro-Sol decal setting solution. Make sure not to touch any of the decals until they're completely dry.

Wait at least a day, then seal the decals with several light coats of Testor's Dullcote. This gives the entire unit a flat, even finish for weathering.

Prototypical weathering effects

It's always best to work from a prototype photo similar to your model unit to get realistic weathering effects. I didn't have a photo of the 548, but

instead used one of another SD10 taken in 1986 as a guide for my weathering.

In 1986 the SD10 still looked good. The Milwaukee Road orange paint had faded somewhat, but the rebuilt diesel had stayed quite clean. The most noticeable weathering effects were below the walkways. The frame, pilots, trucks, and fuel tank had a moderate amount of lightly colored road grime. The truck journals were rather dark from bearing grease, and the fuel tank showed streaks of spilled diesel fuel.

The primary weathering color that I used was Floquil Dust. Mixing 90 percent thinner and 10 percent paint, I airbrushed the entire model with several light coats. I gave the area below the walkways a few more light coats, concentrating on the truck sideframes, fuel tank, and air tanks. These areas should be considerably lightened.

While painting with such a thin mix may seem like a slow process, be patient. The resulting subtle weathering effects make a more realistic model, and building up thin coats helps you avoid trouble.

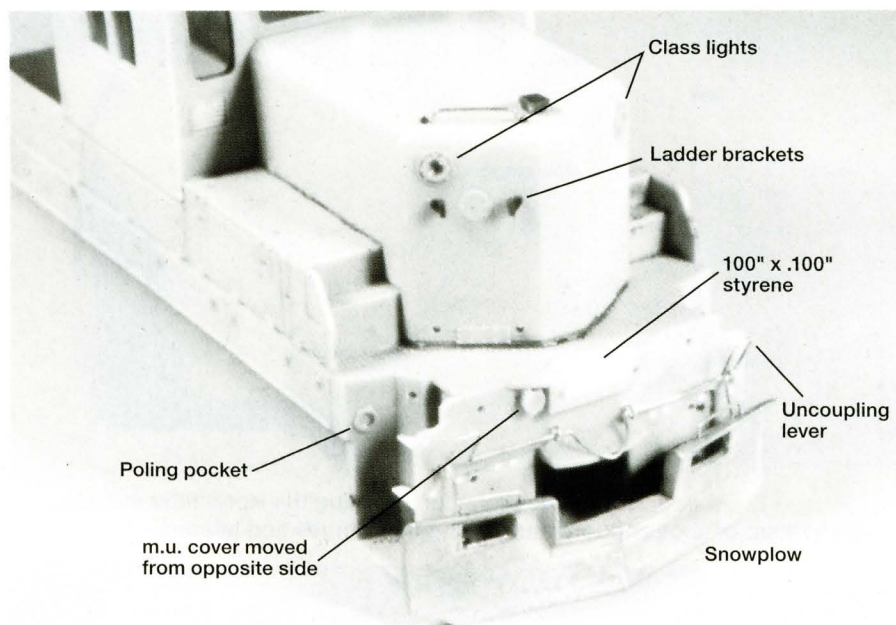


Fig. 9 Front of the unit. Place the details on the front of the diesel as shown, using liquid plastic cement or cyanoacrylate adhesive.

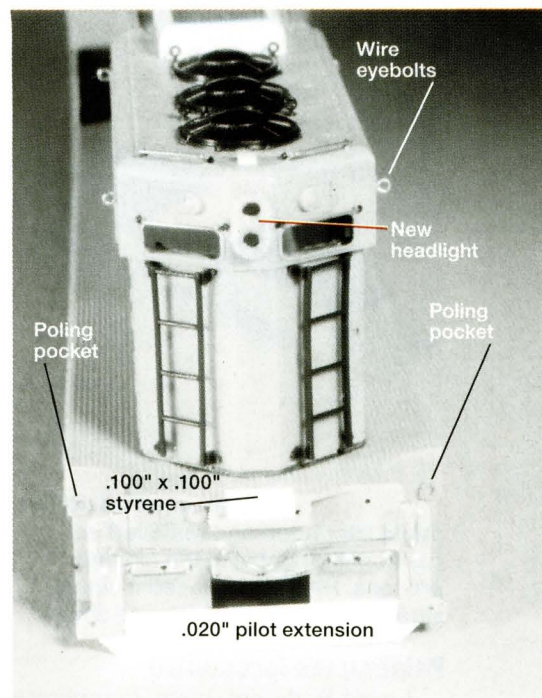


Fig. 10 Rear pilot. These details can be added prior to painting.

▶ Materials list

A-Line

29201 short wipers

Cannon & Co.

1501 EMD SD50/60/70 cab

Detail Associates

1006 Mars dual-beam headlight
1019 diesel class lights
1024 Pyle dual headlight (vertical)
1802 radio antenna (whip type)
2206 wire eyebolts (lift rings)
2212 uncoupling lever
2301 all-weather cab window
2402 exhaust stacks
2507 .022" round brass wire
2524 .015" x .030" flat brass wire
2707 Horst paper-type air filter
2807 flange-type speed recorder
7103 rerail frogs

Details West

106 rotary beacon
120 snowplow
164 EMD GP/SD winterization hatch
190 Leslie RSL-3L-R air horn
198 prime type-1 air filter
266 m.u. hoses (three cluster)
267 air hose with bracket
268 air hose with extension

Evergreen styrene

164 .080" x .080"
175 .100" x .100"
254 1/4" square tube

14505 1/4" square tiles
8102 HO scale 1 x 2
8103 HO scale 1 x 3
8106 HO scale 1 x 6
8208 HO scale 2 x 8
9005 .005" clear sheet
9010 .010" sheet
9020 .020" sheet

Floquil

110006 Dust
110009 Primer
110010 Engine Black

Kadee

5 coupler
33 short-shank centered coupler

Life-Like

SD7 without dynamic brake

Microscale

8774 MP hood unit diesels
87789 Milwaukee diesels 1960-87

Scalecoat

10102 black
10112 white
10832 Milwaukee Orange

Testors

1160 Dullcote

Wm. K. Walthers

1032 2-56 3/16" screws

Drybrush Floquil Engine Black on the truck journals and fuel tank. Then airbrush several light coats of 50/50 Dullcote and lacquer thinner mix.

Adding the final details

After painting you can install the couplers on the mounting pads with 2-56 screws. Check the couplers with a coupler height gauge. Adjust the couplers if necessary.

Use CA to install grab irons, speed recorder parts, and other details. You can also add the window glazing, headlight lenses, and class lights.

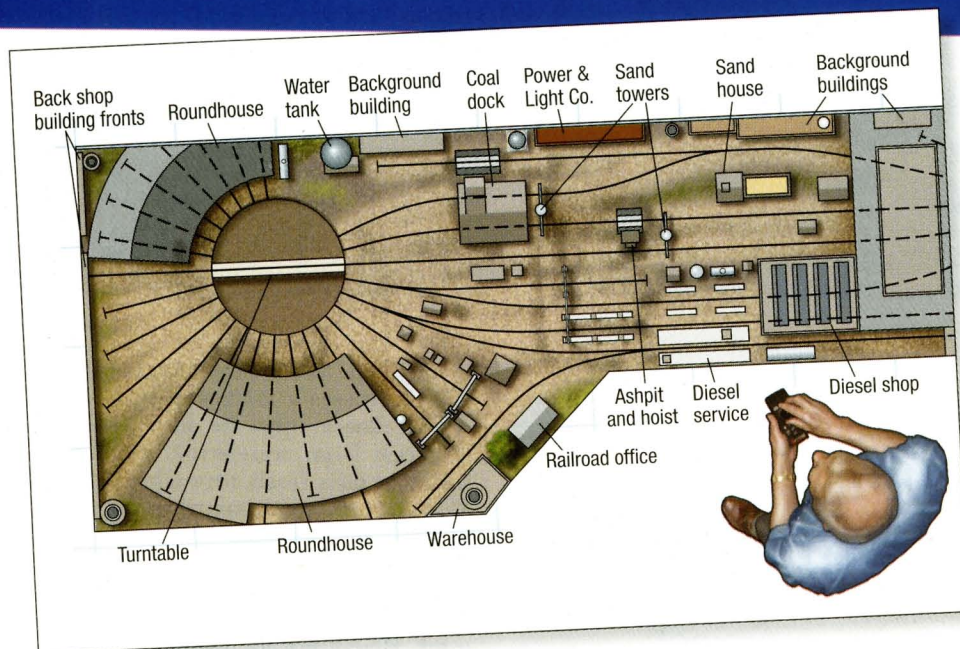
For the most of the cab windows, cut .005" clear styrene following the instructions from the cab kit and secure the glazing with liquid cement. You'll also need to cut a piece of styrene to fit the all-weather window. Use Microscale Krystal Kleer to make the small end panes on the all-weather window.

I melted fiber optic strands (.040" for headlights, .020" for class lights) into rounds to make lenses for my SD10. You could also use Krystal Kleer.

Finally, snap the body in place and set your unit on the rails and take her for a test run. The SD10 is a unique diesel built by a fallen flag railroad. Even if you don't model the Milwaukee Road, Soo Line, or DM&E, you can adapt some of these techniques to model your favorite oddball prototype. **MR**

Jim Vollhard has written several painting and kitbashing articles for Model Railroader. He lives in Mosinee, Wis.

Enter *Model Railroader's* track-plan contest!



Show us a track plan small or large that you have drawn in any model railroading scale that fits within a footprint of 200 square feet and you can win one of three prizes!

First Prize: \$1,000 • Second Prize: \$500 • Third Prize: \$300

In addition, payments for the article will be made at our standard per-page rate.

Rules:

1. Each entry must be an original work and include a scale layout plan and a written description. The plan can be of your own layout or of a layout you might wish to build some day. Other criteria are:

A. The scale layout plan must be drawn to $\frac{3}{4}$ " = 1'-0" scale.

B. The plan can be for any scale or gauge (most common scales are Z, N, HO, S, O, and G) using standard or narrow gauge track, and must fit within a 200-square-foot floor space. Layouts smaller than 200 square feet are eligible. The layout can be rectangular or an irregular shape, free-standing or positioned against a wall or walls. The layout can be walk-around style, walk-in style, shelf style, or any other variation. The ceiling height is 8 feet. Interior aisles, all walkways around the outer edges of the layout necessary for operation, and access openings in the surface of the layout all count toward the 200-square-foot maximum.

C. The following features must be indicated on the layout plan: all track, structures, scenic features, track elevations, turnout sizes, curve radii, and placement of room walls and sizes of aisles and access openings, when applicable.

D. The finished plan should be drawn for commercial turnouts (please specify brand, model or item number, and size) and be submitted neatly drawn in pencil or ink, or as a computer printout. Coloring media, such as

marking pens, colored pencils, or watercolor paints, may be used. Plans drawn using software illustration programs will be accepted only in printed-paper form. Electronic submissions will not be accepted.

E. A written description must accompany the plan. The text must be printed from a computer or typed, double spaced, and 1,000 to 2,000 words long. Include an electronic version of your text on a CD if possible. The topics covered in the text might (but not necessarily) include the following: planning goals, prototype influence (if any), special features, construction or design techniques to solve unusual problems, operating concept, control system, period or place represented, and scenic features.

F. A brief biography and photo of the entrant are also required.

2. Extra explanatory illustrations, such as schematic diagrams, maps, grade profiles, and cutaway views may be included.

3. Each contestant is limited to one entry.

4. All entries must be received in *Model Railroader's* offices no later than October 31, 2008.

5. Winning entries will be published beginning in the May 2009 issue. The first-prize winner is awarded \$1,000, second-prize winner is awarded \$500, and third-prize

winner is awarded \$300. In addition, winning entrants will be paid for their track plans and accompanying stories at our standard publishing rates.

6. All winning entries become the property of *Model Railroader* magazine.

7. *Model Railroader* reserves the right to purchase any non-winning entries at our standard rate for future publication.

8. Non-winning entries not selected for purchase will be returned only if appropriate packaging and postage are supplied by the entrant at time of submission.

9. Kalmbach Publishing Co. employees and members of their immediate families are not eligible to enter this contest.

10. Judging will be conducted by the *Model Railroader* staff.

11. *Model Railroader* reserves the right to not award all prizes and to withdraw any awards.

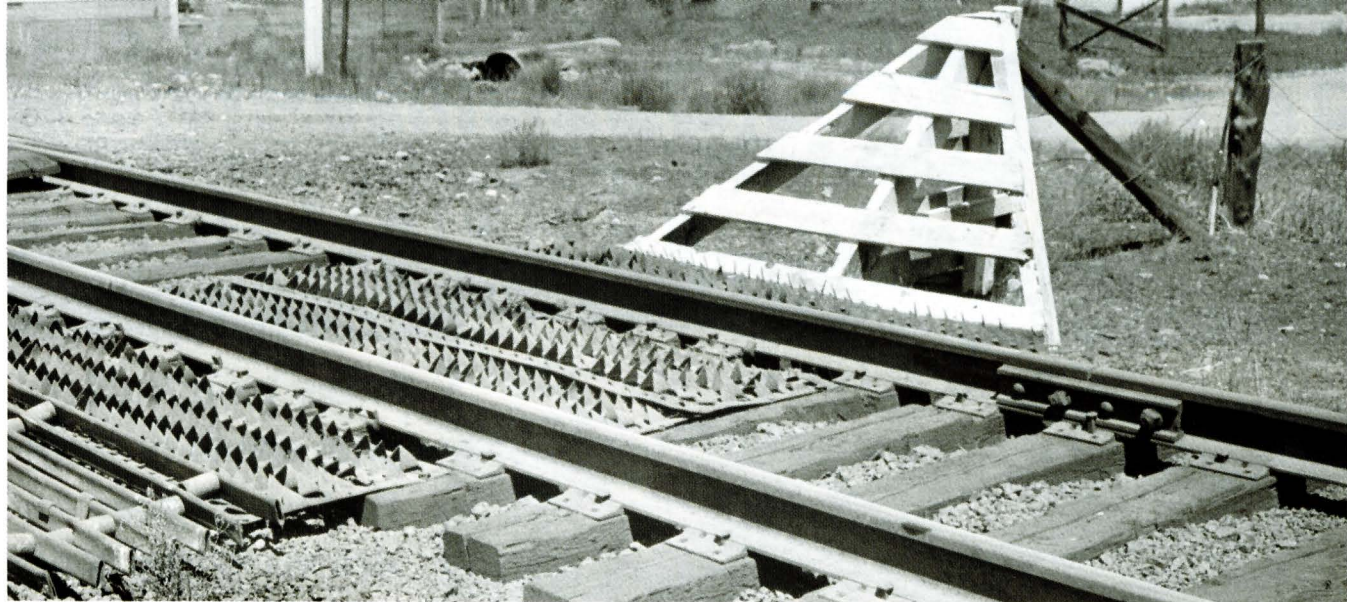
Mail entries to:

Model Railroader magazine
Track-plan contest
21027 Crossroads Circle
P.O. Box 1612
Waukesha, WI 53187-1612

Entry deadline: October 31, 2008

Entry deadline: October 31, 2008

**Model
Railroader**
MAGAZINE



Model a cattle guard

Plans for a simple scratchbuilding project

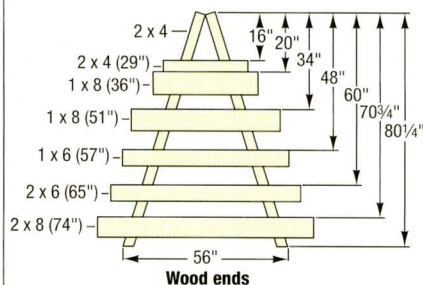
By Harold W. Russell

When the railroad right-of-way crosses a farmer's fence, some device must be used to keep livestock from wandering, yet allow trains to pass freely through the field. Years ago the cattle guard was created to serve that purpose.

Although rarely seen today, the cattle guard's design is essentially the same. The fence terminates near the railroad track. Here a sloped, triangular-shaped wooden structure provides clearance for trains but still serves as a barrier. Horizontal plates with metal spikes are

Ratio 1:64, S scale

TO CONVERT S SCALE
DRAWINGS TO YOUR SCALE
COPY AT THESE PERCENTAGES:
N 40 percent HO 73.5 percent O 133.3 percent

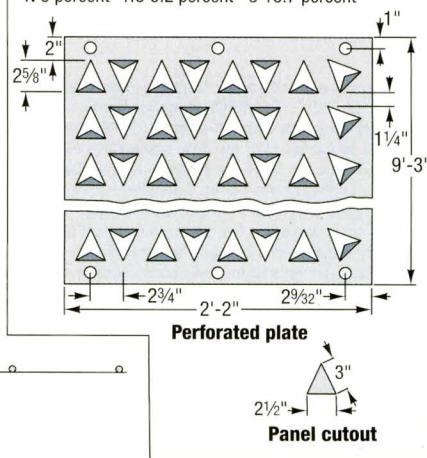


Drawn for Model Railroader magazine by
HAROLD W. RUSSELL

Magazine purchaser may have photocopies of these drawings made as an aid to personal or commercial model making or tool design but does not have the right to distribute copies of the drawings to others.

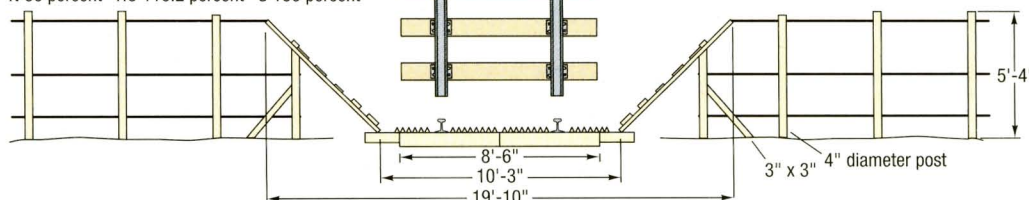
Ratio 1:8, 3/4" = 1'-0"

TO CONVERT THIS DRAWING TO YOUR SCALE
COPY AT THESE PERCENTAGES:
N 5 percent HO 9.2 percent O 16.7 percent



Ratio 1:96, 1/2 O scale

TO CONVERT 1/2 O SCALE
DRAWINGS TO YOUR SCALE
COPY AT THESE PERCENTAGES:
N 60 percent HO 110.2 percent S 150 percent



Cattle guards, such as this one on the Denver & Rio Grande Western, kept livestock from wandering onto the tracks. Glenn Wagner photo

laid next to and between the rails. These spikes are painful when stepped on by livestock and prevent them from crossing the tracks.

Use what's available

The design shown here, located on the Arcade & Attica RR in New York state, was apparently assembled with random pieces of wood. You can vary the dimensions to suit your needs. The wood pattern of the two sloping portions can be different, and the slats need not be horizontal. The angle of the sloping portion can be varied based on the height of the adjacent fence.

The spiked metal plates were obtained from a railroad hardware supplier and are made particularly for this purpose. The prototype has v-shaped holes punched in rows into sheet metal. The triangular spike is bent up along one edge at an angle of about 75 degrees. Notice that the direction of the spikes alternates, and they are turned 45 degrees in one outside row.

For modeling purposes, the plates could be made of heavy aluminum foil. A sharp needle can be used to make circular punches, but a special punch would have to be made to obtain the triangular pattern.

Though holes are provided for bolting the plates to the ties, the plates were just set in place.

A simple project

This cattle guard could be a first scratchbuilding project, and can be finished in one evening. The wood can be obtained from a scrap box. You may want to distress it with steel wool since finished lumber wouldn't be used in this application.

The wood of the prototype is weathered to a gray color. Simulate this with a wash of light gray paint. Use several shades for variety and realism. The perforated plates are a dark rust color. Foulouil Rail Brown mixed with black would approximate the color.

When placing the model on your layout, be sure to add suitable foliage growing up around the fence and through the plate's perforations. **MR**

Harold W. Russell has contributed illustrations and articles to Model Railroader magazine since the 1960s. His drawings of the Morristown & Erie's water tower in Whippany, N.J., were published in the March 2008 issue.

Demar Electronics

P.O. Box 7215, Algonquin, IL 60102
Toll Free 877-655-6433—FAX 847-854-4434
www.demarelectronics.com

We accept most major credit cards

Shipping Add \$5.60 for first pound or less.

Write or call for FREE catalog

See our other ads for more product information

Miniature Toggle Switches

MTS-101	.....SPST	.....\$0.71 ea
MTS-102	.....SPDT	.....\$0.83 ea
MTS-103	.....SPDT C/OFF	.....\$0.90 ea
MTS-123	.....SPDT C/OFF (MOM)	.....\$1.14 ea
MTS-201	.....DPST	.....\$0.86 ea
MTS-202	.....DPDT	.....\$0.90 ea
MTS-203	.....DPDT C/OFF	.....\$0.96 ea
MTS-223	.....DPDT C/OFF (MOM)	.....\$1.34 ea
MTS-302	.....3PDT	.....\$1.46 ea
MTS-303	.....3PDT C/OFF	.....\$1.60 ea
MTS-402	.....4PDT	.....\$2.80 ea
MTS-403	.....4PDT C/OFF	.....\$3.10 ea

2 MM LED's
Colors R-G-Y 10
for \$1.25

SPECIAL
Sunshine White
and Warm
White LED's
2mm and 3mm
\$1.50 each

Miniature Push
button \$0.65 each
Normally Open
Contacts

R1829-() R=RED
B=Black Y=Yellow
G=Green W=White


12 Volt LED's
3mm & 5mm
Red, Yellow and
Greenpack of 3
\$1.50

1.6 MM LED's Colors
Red-Green-Yellow
(5) for \$1.25

Special
WHITE LED's in all
sizes, 1.6MM,
1.8MM, 2MM, 3MM,
5MM and 10MM
\$0.85 each or 10 for
\$8.00.

SPECIAL 2mm Red/Green 2 & 3 Lead 10 for \$2.00

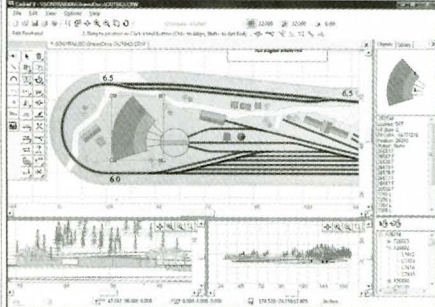
Alligator Clip lead set of 10 \$5.39



CadRail

The Railroad Design Program

Advanced
Layout Design



See it at: **CadRail.com**

It's not just for Track!
Draw buildings,
bridges, bench work
or anything else.

Run trains on
your drawing,
3D cab views.

Sandia Software
505-821-0014

7421 Vista del Arroyo NE
Albuquerque, NM 87109

Internet Download...\$59.95 Parcel Post with manual & CD...\$99.95
US & Canada add \$5.00 S&H. Overseas add \$12.00 S&H.
Check, MC, Visa, Discover, M.O. Prices subject to change.

2mm Diameter Tower LED



These are clear LED's that light bright; their unique shape gives the modeler the opportunity to install them in many applications where space had been limited. Can be used with boats, cars, trucks as well as trains

5 pieces/\$5.25

12-821-05	red
12-822-05	green
12-823-05	amber
12-824-05	blue
12-825-05	yeloglo

10 pieces/\$9.95

12-821-10	red
12-822-10	green
12-823-10	amber
12-824-10	blue
12-825-10	yeloglo

SURFACE MOUNT LED (2mm x 3mm)

This LED is small and has 6" insulated wire leads attached, making working with such a little LED feasible. **4 pieces/\$7.90**
12-621-04 Red 12-624-04 Blue 12-625-04 Yeloglo

Miniatronics
"electronics for the hobbyist"

561-K Acorn Street
Deer Park, NY 11729

1-800-942-9439 • 631-242-6464 • www.miniatronics.com
Fax: 631-242-7796 • e-mail: miniatronics@miniatronics.com

Available at authorized Miniatronics Hobby Stores or order direct.
NYS residents add appropriate sales tax. Shipping & Packaging fee:
Contiguous U.S. \$9.00, Foreign \$15.00 - US Funds.

Manage Your Account Online

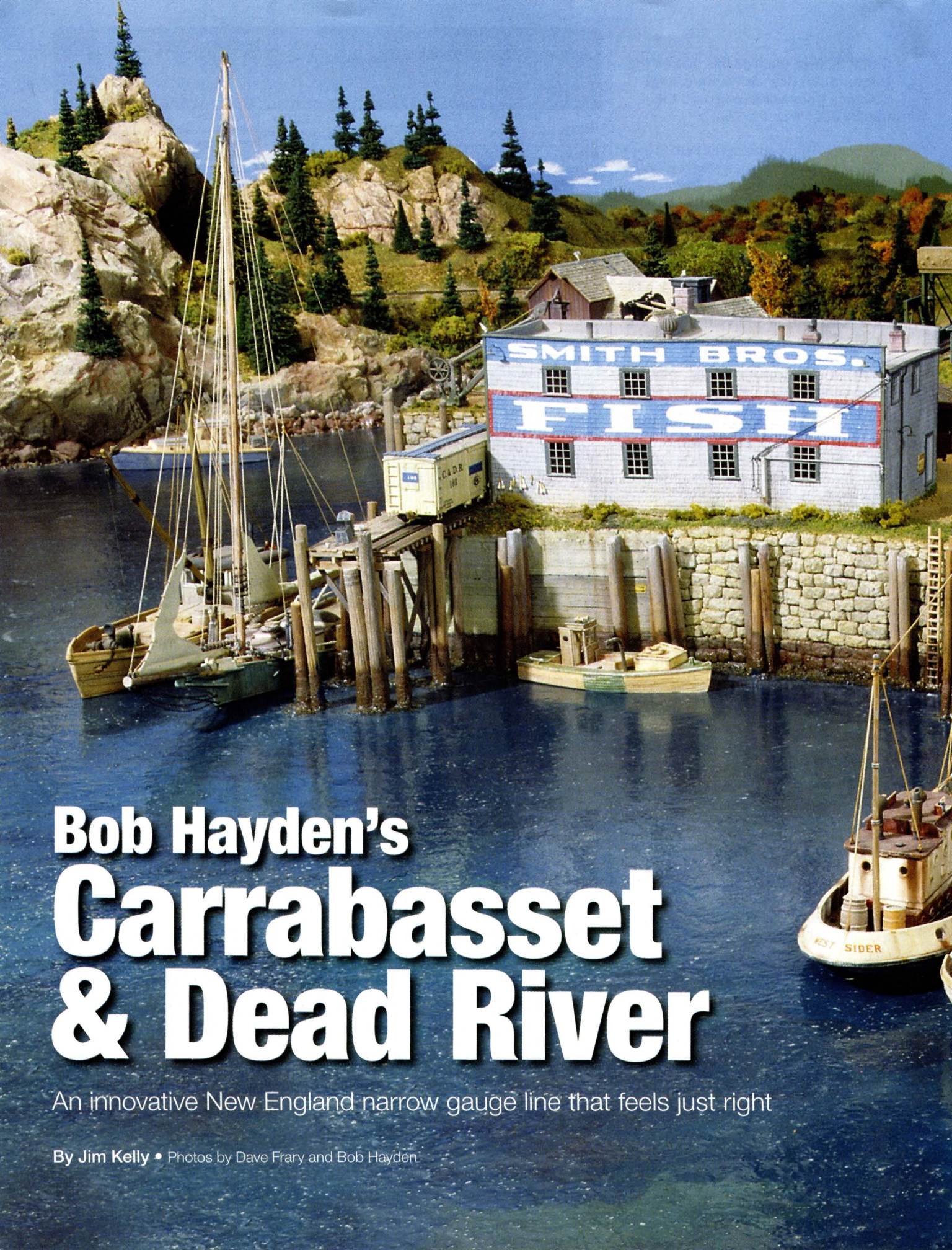
Visit Kalmbach Publishing Co.'s
Online Customer Service Center

**Model
Railroader
MAGAZINE**

- Change Address or E-mail Address
- Subscribe
- Check Payment Status
- Report Damaged or Missing Issues
- Renew Subscription
- E-mail Newsletter Management
- Pay Bill
- Check Expiration of Subscription

www.Kalmbach.com/help

Access and manage your account online (Registration Required)



Bob Hayden's Carrabasset & Dead River

An innovative New England narrow gauge line that feels just right

By Jim Kelly • Photos by Dave Frary and Bob Hayden

LANDMARK
LAYOUTS

75
YEARS



There was no mistaking the locale of Bob Hayden's HO $\frac{1}{2}$ Carrabasset & Dead River Ry. for anywhere but coastal New England. Bob loves to scratchbuild, and he explained how he modeled the swaybacked timbers of the Smith Bros. Fish Co. in the November 1992 *Model Railroader*.



Bob built “what if” diesels (such as no. 34 shown here) for his narrow gauge line, which he declared had survived into the 1940s, years after the real Maine two-footers were gone. The lobster boat has extra meaning – Bob’s long-time hobby partner Dave Frary is a lobsterman.

Looking at Bob Hayden’s Carrabasset & Dead River Ry., whether in photos or in person, I was always struck by its balance. The trains, scenery, structures – all the elements seemed to fit together perfectly. This rightness of things was no accident.

Bob’s plans go far beyond paper and ink. He makes study models, starting with scale wood benchwork and working up to modeling clay scenery. He often makes cardboard mockups of his structures to study how they’ll look together. Bob thinks about how others will see the layout and plans lines-of-sight to guide the visitor’s eye. Detailed scenes are separated by neutral areas the eye skips over.

The Frary connection

Bob designed the Carrabasset & Dead River to be photographed, and not just by anyone, but by his friend Dave Frary. For those of us who have



A diminutive Forney locomotive pulls a passenger train across a high bridge over the Carrabasset River. The spindly steel bridge was inspired by Lobato Trestle on the Cumbres & Toltec Scenic Ry.

been in this hobby since the early 1970s the names Frary and Hayden go together like Simon and Garfunkel. Bob was 14 when he met Dave, and they have collaborated and connived on projects ever since.

Both Bob and Dave are incorrigible theorists, innovative, and have strong independent streaks, so it seems only natural they’d invent their own hobby within the hobby. They are ardent students of the Maine two-foot gauge rail-

roads, have explored practically every inch of those old rights-of-way, and accumulated thousands of photos.

When it came to modeling, though, they used that knowledge not as a destination, but as a departure point. The C&DR is a “what-if” railroad. What if the C&DR had been more prosperous (way more) than its real-life counterparts, embraced the diesel locomotive, and survived into the 1940s?

When N scale first appeared in the late 1960s, Bob and Dave realized its track could be combined with HO scale equipment to get a narrow gauge railroad up and running quickly on 2½ foot gauge track. They could put scratchbuilt HO cabs on N scale diesel bodies to make convincing HO_N2½ diesels, even though such engines never existed. Using N scale trucks and couplers resolved the most difficult hardware issues.

Although the C&DR’s track is N gauge it didn’t use commercial N scale track as Bob had done earlier. Instead, the C&DR is handlaid, some of it courtesy of *Model Railroader* executive editor Andy Sperandio, who loves tracklaying.

Craftsmanship

Bob is a superb craftsman, and he enjoys scratchbuilding equipment and structures, but doesn’t suffer tedium well. He will use commercial castings rather than scratchbuild windows and doors, yet if nothing available is close enough, he will make his own. The Carrabasset roundhouse needed doors that matched a particular prototype. So, Bob built a pattern, made an RTV mold, and cast copies in resin.

Bob keeps careful notes on nearly everything he does. His notes help him recall a technique or re-create an effect from years back. This is particularly important with paint colors and weathering methods.

The C&DR is a sunlit world of vivid colors, yet Bob weathers everything. His secret is simple. Don’t overdo it. Particularly effective is his drybrushing. Bob drybrushes details with white to suggest sunlight, especially on structures and rock surfaces.

Landmark layout at a glance

Name: Carrabasset & Dead River Ry.
Scale: HO_N2½ (1:87.1)
Size: 28 x 28 feet
Builder: Bob Hayden
First in MR: *Great Model Railroads* 1991



Bob built the town of Lower Kennebecport on a slope overlooking the bay. The town and its complex trackwork were part of a challenging switching puzzle Bob created for the December 1996 issue of *Model Railroader*.

Innovation

Bob and Dave didn’t necessarily invent all the new techniques and materials they used, but they tended always to refine and perfect them. Among their accomplishments:

- They were among the first to make foam scenery.
- When they wanted to forest their hills with lichen but couldn’t find a commercial brand with natural colors, they went into the Maine woods and harvested and processed their own.
- They were using ground foam for ground cover very early, purchasing it from architectural modeling suppliers.
- It wouldn’t occur to most modelers to paint structures with model railroad weathering colors such as Mud, Foundation, and Earth, but it did to them.
- When Bob wanted more pulling power without adding a second locomotive, he built a powered boxcar.

• Bob used headphone plugs as pivots for his turntables. The plugs also provide power for the tracks.

The final appeal

Most of us are not going to end up modeling Maine two-foot railroads in HO_N2½, but that’s not what it was all about. The C&DR was about approaching the hobby creatively, artistically, and as individuals.

The scenes tickled our imaginations, yet they were simple and restrained and offered suggestions we could all use to make our layouts better. **MR**

Jim Kelly is a retired Model Railroader managing editor.

More on our Web site

For a track plan of Bob Hayden’s Carrabasset & Dead River Ry., visit our Web site at www.ModelRailroader.com

Add sound to an Athearn Genesis F3



Mike Polsgrove shows you how to add a DCC sound decoder to this model. Jim Forbes photos

After reading the title, you might be thinking, "Wait! Athearn offers its Genesis series F units with sound already. Why would you need to do this?" Well, the Soo Line F3 I have is a direct-current model, so I had to add Digital Command Control (DCC) sound decoder myself.

I used the SoundTraxx DSD-AT100LC decoder because it drops right in the Athearn Genesis F units. Model 820040 has its sound programmed for first generation Electro-Motive Division locomotives. SoundTraxx just announced the new Tsunami TSU-1000 decoder with sound and lighting effects. QSI Solutions also recently released a sound decoder for Athearn and Atlas locomotives with downloadable sound. (Neither were available when I started the project.)

The decoder installation is pretty straightforward. I removed the shell by unscrewing the front coupler box and gently prying the fuel tank skirting apart with my fingers. The locomotive has a light board that is replaced with the decoder. The decoder is the same size and shape as the light board and the wires that are connected to the board are attached to the same terminals on the decoder.

The light board wiring is kept in place by plastic caps, but I prefer discarding the caps and soldering all the connections for greater reliability. See **fig. 1**.

The track power is connected to the decoder in four locations, two wires for each rail. One wire is in each corner. The right rail was connected by two wires to the right

side of the decoder, one wire on each end, and the left rail was connected to the left side of the decoder, again, one wire on each end. The red and black wires from the motor are twisted tightly together, as shown in **fig. 2**, so I noted which wire goes on which terminal of the original light board and duplicated that on the decoder so the locomotive didn't run backwards.

After connecting the motor and the track power, it's an ideal time to test the installation by placing the locomotive on a programming track of a DCC system and reading back the decoder's short address, configuration variable (CV) 1. The programming track senses current pulses or "acknowledgments" to the motor during read back, so don't try to read any CVs before connecting the motor because it won't work.

If CV1 reads correctly (out of the box, decoders are supposed to be programmed to address 3), it's safe to attempt running the model on the main line. If the locomotive runs the reverse direction from what the throttle indicates, the motor wires are connected backwards. They can either be switched, or the value of CV29 can be changed to operate the motor in reverse. To change the motor's direction, read back the current value of CV29, add 1 to it, and write the new value back to CV29.

The larger the speaker the better the sound, so I put the largest

speaker (8Ω) I could fit into the rear of the locomotive behind the decoder. A speaker enclosure is an absolute must when installing sound decoders. The TDS small oval speaker and enclosure from Tony's Train Exchange fit in that space perfectly, but there are many speakers and enclosures available from a variety of sources.

I drilled a small hole in the speaker enclosure, routed the purple wires included with the decoder through the hole and soldered them onto the speaker tabs. I soldered one of the speaker wires to one of the speaker connections toward the rear of the decoder. I soldered the other wire to the capacitor included with the decoder. The other lead of the capacitor is connected to the other speaker connection on the decoder. It doesn't matter if it is the + or - terminal on the decoder. I covered all connections with heat shrink tubing. See **fig. 3**.

My model has single-chime air horns, so I reprogrammed the decoder for this type of horn by changing CV115 to a value of 0. I also turned up the volume of the exhaust by programming CV122 to 250. This is a matter of personal taste. Configuration Variable 122 will accept any number between 0 and 255. The larger the number, the louder the sound.

The Soo Line version of the Athearn Genesis F3 has a white headlight in the lower position on the front of the locomotive and a red signal light in the upper

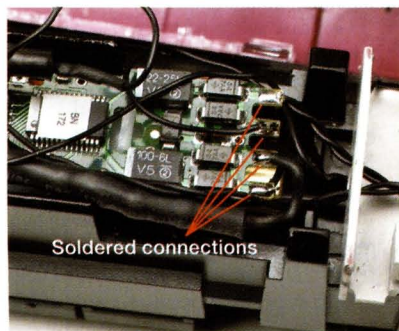


Fig. 1 Soldering the connections. Though the light board wiring was held in place with plastic caps, Mike removed them and soldered the connections for greater reliability.

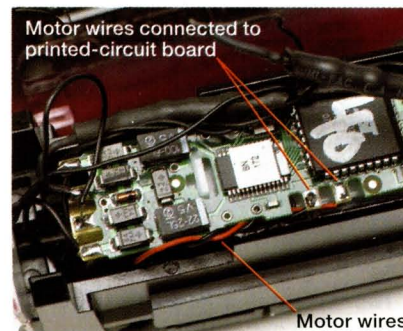


Fig. 2 Motor wires. Mike noted which wire went to which terminal on the original light board and attached the motor wires to the same locations on the decoder.

position. These are powered by the front and rear function outputs of the decoder. The Athearn lights are 1.5V light bulbs and therefore require a voltage-dropping resistor.

To determine the needed resistor value, place the locomotive on the main line, set to the forward direction, and turn F0 on with the throttle. Don't have the bulb connected when you do this or it will blow up. You can then measure the function voltage. Mine was 13.5V, which is typical. That meant the resistor had to drop 12V to leave 1.5V for the bulb. Most Athearn bulbs draw about 15 mA of current, so using Ohm's Law ($V = I \times R$) and a little high school algebra, I found I needed an 800Ω resistor.

I didn't have one on my workbench, but I did have a 1k resistor. I tried that and found that it made the bulbs too dim, so I ended up using a 680Ω resistor in series with a 150Ω resistor for a total resistance of 830Ω. A slightly larger resistor than the calculated value allows for some variation in bulb current and lowers the voltage on the bulb for a little longer life. I had ½ watt resistors, but ¼ watt resistors would do in this case.

I wired the lower light to the front function output (middle two tabs of the front of the decoder) with the resistor combination wired in series with one of the leads of the bulb. The red light was wired to the rear function output (middle two tabs of the rear of the decoder), again with the resistors wired in series. The resistors and leads were covered in heat shrink tubing to prevent shorts. See **fig. 4**.

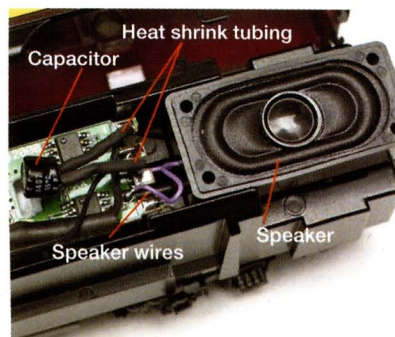


Fig. 3 Speaker installation. Mike added an 8Ω speaker from Tony's Train Exchange to his locomotive. He covered the wiring with heat shrink tubing to prevent a short.

On the prototype the red light is an oscillating headlight, but as wired the white light will come on when the locomotive is running in the forward direction and the red light will be constantly light when the locomotive is running the reverse direction.

The DSD-AT100LC decoder has a number of lighting effects and function mapping tools to make this more prototypical. I set the white headlight to be on in both directions when activated by F0 by programming CV33 and CV34 to 1. A value of 1 in CV49 made the headlight dimmable, and a value of 128 in CV38 made the dimming controlled by F4.

The decoder only allows the red headlight to be remapped to F1 or F2. Function 1 is normally the bell in a sound decoder and F2 the horn or whistle. Many throttles have a momentary contact on F2 to aid in making whistle signals, so I kept F2 as the horn. To make the red headlight controlled by F1, I programmed the value 2 in CV35. To make the red light oscillate I programmed the value 4 into CV50. I moved the bell to F3 by programming the value 1 in CV37.

Retrofitting a direct-current model with a sound decoder and speaker requires some wiring and soldering skills, but the results will enhance the realism of your locomotive greatly. **MR**

Send your questions about Digital Command Control to DCC Corner, *Model Railroader* magazine, P.O. Box 1612, Waukesha, WI 53187, or e-mail dcc@mrmag.com. We regret we can't answer all the questions we receive.

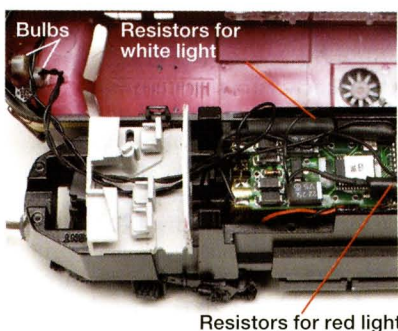


Fig. 4 Wiring the lights. Mike used 680Ω and 150Ω resistors, in series, to wire the lower white headlight and upper red warning light to the printed-circuit board.

SUNBIRD TRAIN MART

OUR 19TH YEAR

www.sunbirdtrainmart.com

3311 North Academy Blvd.

Colorado Springs, CO 80917

HO LOCOS IN STOCK

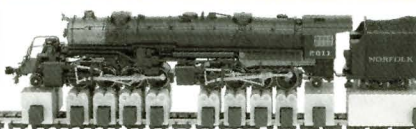
ATHEARN G2532 NP F-3 A/B Genesis	208
94020/21 NP RS-3m in 2 nos.	69
BACHMANN 82713 NP SD-45 with DCC	79
KATO 37-031, 32 C&NW GP-35, 2 nos.	94
PROTO 1000 23889, 90 C&NW Erie Bilt A 2# 49	
NP RS-11, in 2 nos.	52
PROTO 2000 40531, 32 C&NW E-7A, 2 nos.	94
30954 D&RGW PA/PB set	135
30954 D&RGW PA unit	75
30203, 4 GN FA A/B set, 2 nos.	135
30527, 8 BN GP-18, in 2 nos.	99
21514, 5 BN GP-30, in 2 nos.	75
23077 BN GP-30 phase II	63
23480, 1 BN SD-60, in 2 nos.	85
30756 BNSF GP38-2	99
30565 BNSF GP-60 yellow war.	99
23557, 9 CB&Q GP-7 Ph 1 2 nos.	75
31480 CB&Q GP-20, new run	124
8124 CB&Q GP-20	71
30142, 3 CB&Q SD-7, in 2 nos.	75
23483 C&NW SD-60	85
23562 MP GP-7	75
21156 MP SW-9/1200	59
31719 ROCK ISLAND E-8A	64
30802, 3 RI E-8 A/B set, in 2 nos.	139
23449 ROCK ISLAND FA-1/FB-1	135
30068, 9 ROCK SW8/900/600 2#	82
21084 SAL E-7A	69
21670 SSW PA ('Daylight')	75
30802, 3 UP E8/9 A?B, in 2 nos.	143
23621, 2 UP GP-9 Ph II, in 2 nos.	75
STEWART 5913 NP FT A/B	112

We honor Visa/Mastercard/AX; min. ship \$8.95

Orders: 800-274-6179; Open 7 days!

Phone: 719-574-2080; Fax 719-574-2115

The Saddle LOCOMOTIVE RUNNING STANDS



from Z to G we're all under it

The Wheel Doctor CLEANING AND DIAGNOSTICS



Bachrus

tel: 905-337-9592 1289 Hillview Cres.
sales@bachrus.com Oakville, ON L6H 2C6
www.bachrus.com Canada

Product Reviews



HO scale EMD SD60M combines solid performance and good looks

A well-proportioned HO scale SD60M diesel locomotive with a dual-mode Digital Command Control (DCC) decoder with sound, detailed cab interior, and separately applied details is now part of the Athearn Genesis line. This newly tooled model (this isn't an upgraded Rail Power Products shell) is based on the General Motors' Electro-Motive Division prototype.

History. Burlington Northern's fleet of 100 SD60M diesel locomotives was built in two groups of 50 between 1989 and 1991. Our sample, BN no. 9261, is based on those produced during the second half of the production run. Railfans and modelers refer to detail differences that took place during production runs as "phases." These

locomotives, known as Phase IIb SD60Ms, have number boxes above the cab windows, two-piece windshields, and tapered noses for better visibility. The Phase Ib SD60Ms are easily recognizable by their three-piece windshield.

A detailed exterior. The model's dimensions closely match drawings in Robert C. Del Grosso's book *BNSF Railway Company 2006 Locomotive Review and Locomotive Diagrams* (Great Northern Pacific Publications, 2006). The distance over the coupler pulling faces is about a scale foot longer, but that's because model couplers are slightly oversize.

The model has see-through radiator fans, central air intake, and exhaust stack silencer. The model also has an electrical cabinet behind the cab on the brakeman's side, freestanding uncoupling levers, separately applied windshield wipers, and wire grab irons. Though the locomotive doesn't have lift rings, there are molded drill-starter points on the roof for those wishing to add them.

The HT-C truck sideframes are crisply molded with separately applied brake cylinders and snubbers. A speed recorder is attached to the front truck on the brakeman's side.

The Cascade Green and black paint was smooth and evenly

applied. Except for a bit of overspray between the green and white on the front of the cab, the color separation lines were crisp. The printing was sharp, and the white heralds, letters, and numbers were opaque. Even the small labels, including FIRE EXTINGUISHER INSIDE and LUBE OIL DIPSTICK INSIDE, were legible under magnification.

The model has an injection-molded plastic 4,500-gallon fuel tank that is secured to the chassis with a single Phillips screw. Burlington Northern SD60Ms have 5,000-gallon tanks, but the difference isn't that noticeable in HO scale. The tank is well detailed with fuel fillers, sight gauges, and drain and vent pipes.

Under the shell. To get under the shell, I first unscrewed the coupler boxes and fuel tank. I then removed two additional screws (one behind the front truck on the engineer's side and the other in front of the rear truck on the brakeman's side). I removed the shell carefully, as the wires for the headlights and ditch lights are tethered to the printed-circuit (PC) board.

More on our Web site

Want to see and hear the Athearn HO scale SD60M in action? Current subscribers can watch a video online at www.ModelRailroader.com.

Reviewed in this issue

82 Atlas O sound-equipped EMD F2A diesel locomotive

84 Bachmann Industries HO scale 2-8-4 Berkshire

86 Kadee HO scale cushion-underframe boxcar

89 Micro-Trains N scale three-dome tank car

▶▶ Athearn HO SD60M

Price: Direct-current \$139.98 to \$159.98, Digital Command Control with sound \$239.98 to \$259.98

Manufacturer

Athearn Trains
1550 Glenn Curtiss St.
Carson, CA 90746
www.athearn.com

Road names: SD60I lettered for Conrail and CSX. SD60M decorated for Burlington Northern (Cascade Green and "Pulling for Freedom" schemes), Burlington Northern Santa Fe (no. 9297 and Heritage II), and Union Pacific. Undecorated versions of both prototypes also available

▶▶ HO SD60M features

Blackened metal wheelsets, correctly gauged
Celcon handrails
Detailed fuel tank
Drawbar pull: 3.36 ounces (equivalent to 47 free-rolling HO freight cars on straight and level track)
Five-pole skew-wound motor with dual flywheels
McHenry magnetic knuckle couplers at correct height
Minimum radius: 22"
Railroad-specific details
See-through grills
Weight: 20.7 ounces
Wireless handheld remote controller for operating sound effects on direct-current layouts

Inside the cab is a one-piece interior with three seats, two operator consoles, and electrical cabinets on the back wall. The gray injection-molded plastic interior looks great and is clearly visible through the front and side windows.

The speaker is mounted in the radiator section of the long hood. The factory default for the volume is 3 (maximum), which was loud and tinny sounding. A booklet included with the locomotive lists the configuration variables (CVs) for the various sounds.

There are 16 different horn types and 6 different bells to choose from. One odd quirk is that when the horn is activated (both in DC and DCC), the bell also starts to ring. The bell can be activated independent of the horn.

The constant, directional headlights turn on and off gradually. When the horn is activated, the ditch lights flash in an alternating pattern for 10 seconds. A limited number of sound and light effects can be activated in DC using the wireless handheld remote controller included with the model.

On the test track. I first tested the locomotive in DC mode, and the headlights and sound started at 5.8

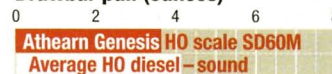
volts. The locomotive began moving at a scale 6.9 mph at 8.5 volts. The higher voltage is typical of locomotives with dual-mode sound decoders. It achieved a top speed of 76.9 scale mph, slightly higher than the prototype's top speed of 70 mph.

Next, I tested the unit with Model Rectifier Corp.'s Prodigy Advance DCC system using 28 speed steps. At step 1, the SD60M moved at a scale 4.2 mph. By step 28, the locomotive was clipping along at 119.9 scale mph.

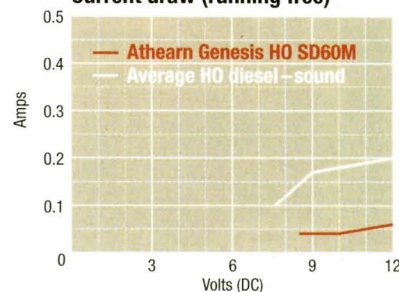
I also ran the locomotive using 128 speed steps. Control was more precise, especially at lower speeds.

A winner. The Athearn Genesis SD60M is a well-executed model. The shell features excellent tooling with crisp knuckle-buster latch and door hinge detail. The dynamic

Drawbar pull (ounces)



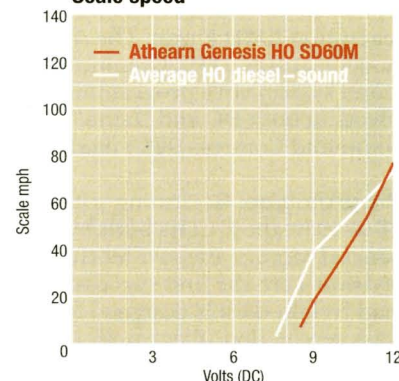
Current draw (running free)



	Draw when slipping	Draw when stalled
Genesis HO scale SD60M	.08A	.10A
Average HO diesel-sound	.32A	.80A

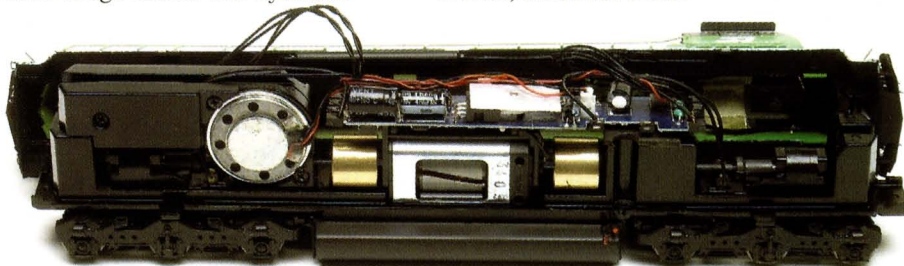
*"Average" data based on comparable locomotives reviewed recently

Scale speed



	Minimum sustained speed
Athearn Genesis HO scale SD60M	6.9 mph
Average HO diesel-sound	3.2 mph

brake grids and radiator screens are lightly weathered, which is a nice touch. Though the top speed for the model is high in both DC and DCC, the locomotive runs well and is a good puller. —Cody Grivno, associate editor



Underneath the shell is a five-pole skew-wound motor with dual brass flywheels, a printed-circuit board, and a speaker for the sound system.



Dual-mode Van Sweringen Berkshire performs well on DC and DCC layouts

The “Van Sweringen” Berkshire 2-8-4 was one of the last great steam locomotive designs. This Bachmann HO scale Berkshire is an accurate depiction of the prototype. The model features a dual-mode decoder that automatically switches between DC and Digital Command Control (DCC).

Van Sweringen Berkshires. The prototype for the Bachmann model is one of the 300 2-8-4 Berkshires built for railroads owned by the Van Sweringen brothers of Cleveland, Ohio. The Van Sweringen railroads – the Chesapeake & Ohio; Erie; New York, Chicago & St. Louis (Nickel Plate Road); and Wheeling & Lake Erie – formed an Advisory Mechanical Committee that designed the Berkshire.

Although some Berkshires were built by the American Locomotive Co., most of the Van Sweringen Berks were built by the Lima Locomotive Works. A large number of these locomotives went to the Nickel Plate Road, which had a Berkshire fleet that eventually totaled 112.

The Nickel Plate Road divided the Lima-built Berks into three classes: S-1 (nos. 715 to 739, delivered in 1942), S-2 (nos. 740 to 769, delivered in 1943 and 1944), and S-3 (nos. 770 to 779, delivered

in 1948). The S-class Berkshires all had the same basic dimensions.

Nickel Plate Road Berkshire no. 779 was the last steam locomotive ever built by Lima and is preserved at the Allen County Museum in Lima, Ohio.

All dimensions of the Bachmann model match drawings of a Nickel Plate Road class S-3 Berkshire in the *Model Railroader Cyclopaedia vol.1: Steam Locomotives* (Kalmbach Publishing Co.).

The HO scale locomotive is decorated and detailed for Nickel

Plate Road no. 765, which has been preserved in operating condition by the Fort Wayne Railroad Historical Society in Fort Wayne, Ind.

Model construction. The model is made primarily of plastic, including the boiler, cab, and tender. The molded-in detail is well defined and matches the placement on the prototype, including rivet seams, boiler bands, and sand lines. The Berkshire has separately applied detail parts, including the handrails, throttle linkage, and boiler check valves.

The printed diamond-shaped Lima builder's plates on the sides of

HO 2-8-4 Berkshire

Price: \$160.00

Manufacturer

Bachmann Industries Inc.

1400 E. Erie St.

Philadelphia, PA 19124

www.bachmanntrains.com

Description: HO plastic and metal ready-to-run steam locomotive

Road names: Nickel Plate Road nos. 765 and 759 (railfan version), Chesapeake & Ohio nos. 2724 and 2760 (Kanawha version), Pere Marquette nos. 1218 and 1225, painted but unlettered (Kanawha and NKP versions)

HO 2-8-4 features

Automatic dual-mode Digital Command Control (DCC)

Can motor with brass flywheel

Dimmable headlight and backup light in DCC

Drawbar pull: 3.2 ounces

Electrical pickup on all drivers and eight of 12 tender wheels

E-Z Mate Mark II magnetic knuckle couplers at correct height

Minimum radius: 18"

RP-25 metal wheels in gauge

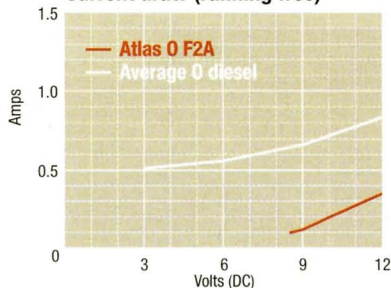
Weight: 1 pound 4.5 ounces

Drawbar pull (ounces)

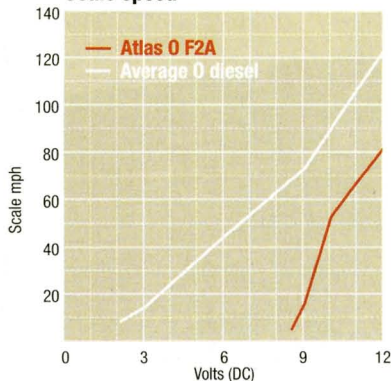
0 5 10 15 20 25

Atlas O F2A
Average O diesel

Current draw (running free)



Scale speed



	Draw when slipping	Draw when stalled
Atlas O F2A	0.5A	1.25A
Average O diesel	1.8A	4.60A

*Average" data based on comparable locomotives reviewed recently

	Minimum sustained speed
Atlas O F2A	4.7 mph
Average O diesel	7.8 mph

equivalent of 55 O scale freight cars on straight and level track.

The dual-mode QSI Quantum sound decoder operates well and offers realistic sound on DC as well as DCC layouts. Along with the realistic rumble of the diesel engine, I triggered the horn and bell using the direction button of the power pack in our shop.

As outlined in the included instruction manual, you can program many of the decoder's features in DC using only a power pack. Programming of the QSI Quantum sound decoder is made even easier if you use a QSI Quantum Engineer analog DC controller (sold separately).

Programming also was easy in DCC. I changed the F2's long address to its locomotive number. An extensive list of CVs controlling sound and motor performance are also programmable.

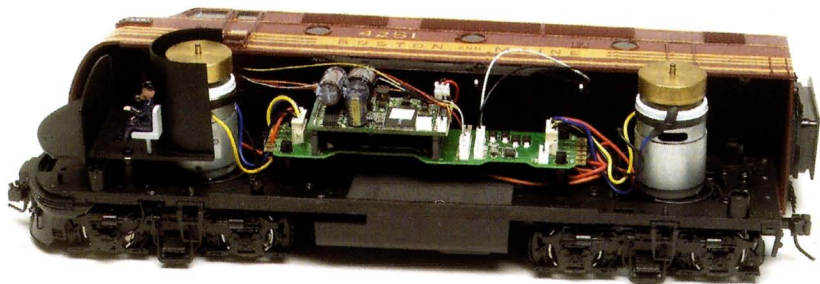
Sound effects include the air horn and prime mover. The diesel engine rpm sounds shift through all eight throttle notches.

Speed tests. The Atlas F2 performed well in both DC and DCC modes. Out of the box the model is factory programmed in Regulated Throttle Control (RTC). This gives the F2 realistic momentum when accelerating and decelerating. For our speed tests, I set the model to Standard Throttle Control (STC), which makes the model respond immediately to throttle adjustments. The instructions outline how to switch between RTC and STC in both DC and DCC modes.

In DC the model started moving at 4.5 scale mph at 8.5 volts and accelerated to 82 scale mph at 12 volts. Slow speed performance was better in DCC using 128 speed steps, as the model crawled at 1.5 scale mph in speed step 1 and again reached a top speed of 82 scale mph, which is close to that of one of the prototype's gear ratios offered by EMD.

The Atlas O F2 is a smooth performer in both DC and DCC. Its great sound system makes the O scale F unit a lot of fun to operate.

— Dana Kawala, associate editor



The F2A features dual can motors with brass flywheels. The QSI Quantum sound system includes a speaker mounted in the die-cast metal fuel tank.

RAIL CLEANERS (THE ONES THAT WORK)



NON ABRASIVE NON DERAILING
CLEANS RAILS AND WHEELS
ENGINES RUN SMOOTHER
NO MISSED SPOTS, EVEN IN TUNNELS
GAUGES - N, HO, OO, S, SN3, O, G

A PATENTED BETTER IDEA FROM

CENTERLINE PRODUCTS, LLC

1229 E. 4TH STREET, RENO, NV 89512

TEL (775) 337-6662 FAX (775) 337-6663

www.centerline-products.com

info@centerline-products.com

'54 Ford® F-350 Utility Trucks At Your Dealer Now!



Series 1 - HO & N 1954 Ford F-350 "Transition Era" Utility Trucks w/ Detailed Accessory Parts!

4 Railroad Hi-Rail Utility Trucks / Bell Telephone /
Western Union / Power Co. with Redi Watt Logo &
Un-Marked Utility Trucks in Omaha Orange,
ChromeYellow, and White with Hi-Rail Parts.

CMW Holdings, Ltd - 3401 Silica Rd. - Sylvania, OH 43560

419.842.8114 - www.classicmetalworks.com

Products bearing Union Pacific marks are made under trademark license from

Union Pacific Railroad Co. Mini Metals & Classic Metal Works are Registered Trademarks

of CMW Holdings, Ltd.

OPERATE 1:1 SCALE!!

TAKE THE THROTTLE



Locomotive Rental • 14 miles • \$695

Call or go on line for details

NEVADA NORTHERN RAILWAY

(866) 407-8326 • www.nnry.com



Atlas O F2A sounds like the real thing

With the distinctive rumble of a 567 diesel engine, this O scale F2A replicates the sounds of a first-generation EMD F unit. The Atlas O model features a QSI Quantum sound system with programmable effects in both DC and Digital Command Control (DCC) modes.

The prototype. Beginning with the FT in 1939, the F units built by General Motors' Electro-Motive Division were the first successful road freight diesels designed for mass production. Electro-Motive produced F2 A and B units from July to November 1946. The F2 was a transitional model between the FT and the F3 diesels. (The F2 had a 1,350-hp engine, compared to the F3's 1,500-hp power plant.)

Modelers and railfans use the term "phases" to describe the detail changes that occurred during F3 production. Externally the F2 looks identical to a phase I F3. Key spotting features of an F2/F3A include high radiator fan shrouds, small rear air-intake openings, square corner doors, and center portholes on the body.

Appearance. All the Atlas O model's dimensions match drawings of a Phase I F3 found in the *Model Railroader Cyclopedia: Vol. 2 Diesel Locomotives* (Kalmbach Publishing Co., out of print).

The Atlas O F2 has a plastic body shell with molded and

separately applied details that match prototype photos. All the grab irons are metal. The dynamic brake screens and radiator vents are see-through. Underneath the vents are separately applied fans.

Our review sample came painted in the Boston & Maine's maroon and gold "Minuteman" paint scheme, which was first applied to B&M cab units in 1945. The railroad purchased its F2s in 1946 and the Atlas O model matches prototype photos, including the "Minuteman" herald on its nose.

Matching B units are available for the B&M version. When coupled together the A and B units are prototypically spaced with their diaphragms touching.

Drivetrain and electronics. I removed four screws under the chassis and lifted off the body shell. At each end a can motor with a flywheel transfers power to a gearbox above each truck. A printed-circuit (PC) board with the DCC decoder mounted on top of it is between the trucks. The speaker for the sound system is mounted in the fuel tank.

The fuel tank, trucks, and chassis are die-cast metal. The hefty Atlas O F2 has a drawbar pull

▶▶ O scale F2/F3 diesel

Price (single A or B unit):
\$419.95 (DC), \$479.95 (DCC),
\$199.95 (unpowered)

Manufacturer

Atlas O
378 Florence Ave.
Hillside, NJ 07205-1799
www.atlasO.com

Description: Ready-to-run plastic and metal diesel

Road names: (two road numbers each) Boston & Maine; Chicago, Burlington & Quincy; Lackawanna; New York Central; Rock Island; Southern Ry.; and undecorated (single- and double-headlight versions)
B units for B&M, Lackawanna, SR, and undecorated

▶▶ Atlas O F2/F3 features

All-wheel drive and electrical pickup
Blackened metal RP-25 contour wheels in gauge
Die-cast metal magnetic knuckle couplers at correct height
Drawbar pull: 1.2 pounds
Dual-model Digital Command Control decoder (DCC version only)
Dual can motors and flywheels
Minimum radius: 36"
QSI Quantum sound system (DCC version only)
Weight: 3.75 pounds

IN OCTOBER'S ISSUE

PROBLEM-SOLVERS SPECIAL

**Have questions?
We have answers!**

Learn how to:

- Plan a railroad that offers maximum train action
- Build a fold-away layout
- Have more fun with postwar trains
- Take great digital photos

ON SALE NOW! Subscribe Today!

1-800-533-6644

Order online at
www.ClassicToyTrains.com

In the October issue

A modern, mainline railroad in Florida

Modeling in
 $\frac{7}{8}$ " scale

**Jack Verducci
on structures**

A gallery of
readers' photos

To get your copy of the October issue of *Garden Railways*, visit your local hobby shop, newsstand, or call.

SUBSCRIBE TODAY!
1-800-533-6644

Order online at
www.GardenRailways.com

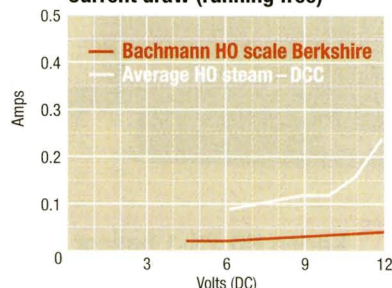
Garden RAILWAYS
MAGAZINE

Drawbar pull (ounces)

0 1 2 3 4 5 6 7 8 9 10

Bachmann HO Berkshire
Average HO steam - DCC

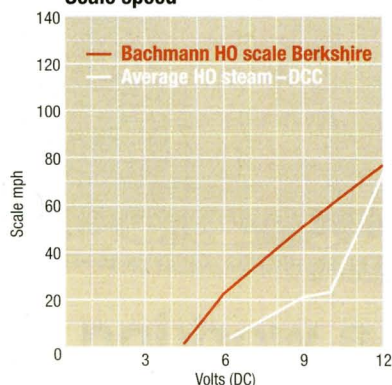
Current draw (running free)



	Draw when slipping	Draw when stalled
Bachmann HO Berkshire	.04A	.06A
Average HO steam - DCC	.33A	.67A

Average data based on comparable locomotives reviewed recently

Scale speed



	Minimum sustained speed
Bachmann HO scale Berkshire	1.8 mph
Average HO steam - DCC	3.5 mph

the locomotive's smokebox are legible under magnification.

Detail inside the cab is sparse. Engraving on the backhead depicts the basic outline of the firedoors and some piping. There are no seats or crew figures. However, there is glazing in all the cab windows and the cab walls are painted green as on the prototype.

Our review sample came decorated as Nickel Plate Road no. 765 as she looks today when leading excursion trains. The locomotive's running boards, footboards, driver tires, and leading truck, trailing truck, and tender wheels are edged in white.

The placement of the lettering matches prototype photos. The Nickel Plate Road lettering across the tender's sides is noticeably thicker than on the prototype.

Drivetrain. The can motor and brass flywheel are inside the rear half of the locomotive boiler and contribute to most of the model's weight. The motor turns a worm gear that transfers power to a gearbox above the third axle. The other drivers are powered through the motion of the side rods.

The engine drawbar has two holes. The outer hole spreads the cab and tender apart to allow the locomotive to negotiate tight curves. The inner hole provides more prototypical spacing.

Electrical connections consist of a two-pin plug and a four-pin plug on the tender that connect to sockets under the engine cab.

After removing four screws on the bottom of the plastic tender frame, I pulled off the tender shell. The printed-circuit board and DCC decoder are mounted on top of a metal weight that's screwed to the tender frame. There's plenty of room for adding a sound system.

Performance. The Bachmann Berkshire ran reliably in both DC and DCC but has a noisy motor in both modes.

In DC the headlight came on at 4.5 volts and the model started moving at 1.8 scale mph. The Bachmann Berkshire reached a top speed of 77 scale mph at 12 volts, which is within a couple scale mph of the prototype.

The model's DCC decoder supports 28 speed steps, but our sample didn't start moving until speed step 4. I tried adjusting the starting voltage and acceleration but the model still didn't move in speed steps 1, 2, or 3. The Berk's starting speed was an incredibly slow .2 scale mph and reached a top speed of 77 scale mph in step 28, which is close to that of a prototype Nickel Plate Berk.

In DC and DCC the Bachmann Berkshire has enough power to pull the equivalent of 45 average HO scale freight cars on straight and level track.

Although its DCC features are limited, this HO 2-8-4 still performed well. The Bachmann Berkshire would make a great addition to a late steam-era roundhouse. — D.K.



HO boxcar has a working cushion underframe

An operating cushion underframe is a great new feature that Kadee has incorporated into its HO scale line of Pullman-Standard 50-foot PS-1 boxcars. The characteristic extensions of the car's sliding center sill make this distinctive model easy to spot anywhere.

Cushion underframes have been around since the 1920s when railroads began searching for ways to reduce impact damage due to switching and slack action. Ordinary boxcars use energy-absorbing draft gear with about 3" of travel within the rigid coupler boxes. In contrast, "cushion-underframe" cars had their couplers mounted on a sliding sill that could move up to 10" in a channel passing through the center of the underframe. Various friction-operated cushioning devices connected the sliding sill to the car's underframe.

As boxcars grew in capacity during the 1960s, the need for additional cushioning became evident and Pullman-Standard

began offering Hydroframe 60 long-travel cushion underframes on the firm's popular line of PS-1 boxcars. This new generation of cars used hydraulic cushioning and up to 30" of travel to dissipate any impact the sliding sill received. However, a cushion underframe protects only its own carbody, as the rigid length of the sliding sill will transfer any hard impact straight through to the next car in line.

Large reductions in damage claims made these cushioned cars extremely popular with shippers of bottled and canned goods, glass, roll paper, and similar heavy products that are easily damaged.

Kadee's new boxcar is a superbly finished model detailed to represent one of 200 cars built for the Gulf, Mobile & Ohio RR in 1963. Like the prototypes, this model combines Kadee's original 50-foot PS-1 body shell with a revised underframe. Numerous details like ladders, grab irons, and running boards are individually applied, and a clever system of internal guides allow the sliding doors to operate smoothly with scale-size exterior hardware.

Most of the model's weight comes from the die-cast metal floor, which snaps into the body. The sliding sill and underframe details are molded styrene, and they're secured by the truck screws. Concealed coil springs allow the sliding cushion sill to move correctly under impact, and then return to its centered position.

Our sample came with appropriate Kadee ASF Ride Control solid-bearing trucks. These free-rolling trucks have metal RP-25-contour

▶▶ Kadee HO PS-1 boxcar

Price: GM&O, \$32.95; others, \$34.95

Manufacturer

Kadee Quality Products
673 Avenue C
White City, OR 97503-1078
www.kadee.com

Road names: Gulf, Mobile & Ohio; Atlantic Coast Line (black); Missouri-Kansas-Texas; and Rock Island

▶▶ Kadee HO boxcar features

ASF solid bearing trucks
Kadee scale magnetic knuckle couplers at correct height
Operating cushion underframe
RP-25 contour metal wheels mounted in gauge
Weight: 4.5 ounces (matches NMRA RP-20.1)

wheels mounted on needle-point acetal plastic axles. The wheelsets match the National Model Railroad Association's standards gauge.

Kadee metal scale couplers are mounted at the proper height, and the model weighs 4½ ounces.

Our sample was smoothly painted dark green with clearly printed white lettering. Even the smallest lettering was readable.

Sometimes it's hard to improve on success, but Kadee has certainly done it here. This is a well-done model of a popular prototype boxcar. — *Jim Hediger, senior editor*

▶▶ More on our Web site

Current subscribers: Watch a video demonstration of the Kadee PS-1 boxcar's operating cushion underframe at www.ModelRailroader.com.



The sliding center sill moves in both directions to help cushion impacts.

For Any Gauge Track
For Any Size Layout
Easy to Assemble

Modular units intermix for unlimited layout designs. Assemble an 8' x 12' layout in less than 3 hours.

\$1 brings all the details of this solid, rigid benchwork with templates so you can design your layout.

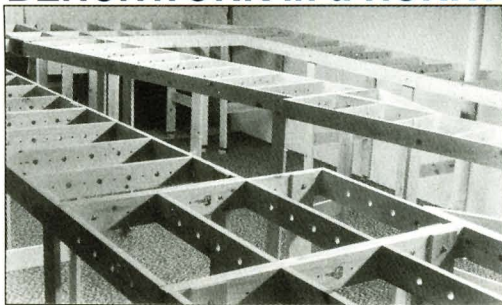
Sievers

BENCHWORK

PO Box 100
Washington Island, WI 54246

Phone: 920-847-2264
Fax: 920-847-2676
www.sieversbenchwork.com

BENCHWORK in a HURRY



Tsunami[®]



**Digital Sound
Decoders for Diesel!**

SoundTraxx is proud to introduce our Tsunami[®] Digital Sound Decoder for Diesels! Finally, a true 16-bit diesel digital sound decoder designed with modelers, not computer pros in mind. Each Tsunami comes with 16 airhorns appropriate to the era - simply choose your favorite, without downloading software or buying dedicated programming devices. Select EMD 567, 645 or new 710 Prime Movers for your 1st, 2nd and now, 3rd Generation diesels. For ALCO fans, choose from a 244 or our newly-added 251 Prime Mover. Other cool sounds include engine startup and shutdown, radiator fans, dynamic brakes, bell, short and long horns, manual or automatic notching and more!

SOUNDTRAXX[®]

210 Rock Point Drive, Durango, Colorado 81301
(970) 259-0690 Fax: (970) 259-0691 Website: www.soundtraxx.com

Not sure what you need? Visit our website for help with prototype and horn selections!

CONCRETE TIE FLEX-TRAK[™] From Micro Engineering

The Micro Engineering Concrete Tie Flex-Trak[™] is modeled after prototype track that uses prestressed concrete ties and Pandrol[®] FastClip rail holders. The molded ties have a realistic shape, thinner in the center, beveled edges on all four sides, and a realistic concrete color. The rail clips actually hold the rail in place on the Delrin[®] plastic ties. This track has the impressive detail you expect from Micro Engineering. See it at your dealer or order direct.

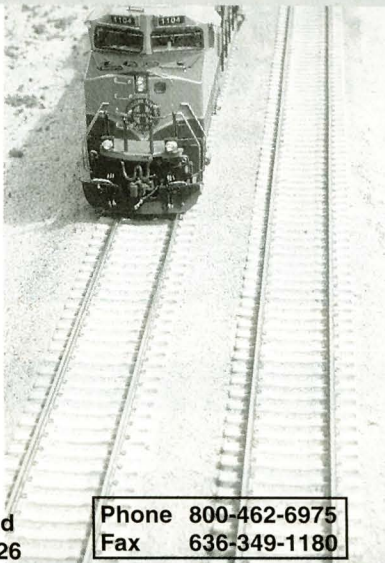
12-105	HO Code 83 Wea.	\$34.55
12-125	N Code 55 Wea.	30.80
10-105	HO Code 83 Non-Wea.	32.95
10-125	N Code 55 Non-Wea.	29.55

18 foot bundles, six 3 foot pieces.

ME Micro
Engineering
Company

1120 Eagle Road
Fenton, MO 63026

Phone 800-462-6975
Fax 636-349-1180



Unplanned thrills on a CB&Q fan trip • 10-page photo gallery

ClassicTrains

THE GOLDEN YEARS OF RAILROADING

**Action in the
Alleghenies**

Steam on Western Maryland
and Baltimore & Ohio, 1952

**Double diesels
battling UP's
Sherman Hill**

PLUS

Signal towers
on the Rock Island,
B&M, and New Haven

Ride a steam-powered
mixed train in Arkansas

NYC in New York and New Jersey

Ann Arbor Railroad • Sunday cuckoo on the rails

Fall 2008 Edition

Tracking Steam on the Western Maryland and B&O

Two colorful days with Allegheny mountain climbers in 1952

JV Was for Johnsonville

Jim Shaughnessy remembers great times at a Boston & Maine tower

Double Diesels on Sherman Hill

Big UP power battles a famous Wyoming grade in 1974

Photo Section

10 pages of CPR, Milwaukee, B&O, SP, Katy, DT&I, and GN

The Standard-Gauge Circle

How trains on three railroads helped Virginia folks get a drink on Sundays

The Cocky Kid in MC Tower

A new Rock Island operator gambles with the Chicago commuter rush

Mixed Train to Waterloo

Riding the steam-powered Reader Railroad in Arkansas in the 1960's

Bird's-Eye View

New York Central on the Hudson

Fallen Flags Remembered

Ann Arbor Railroad

**PLUS: True Color, Car Stop,
The Way It Was, and more!**

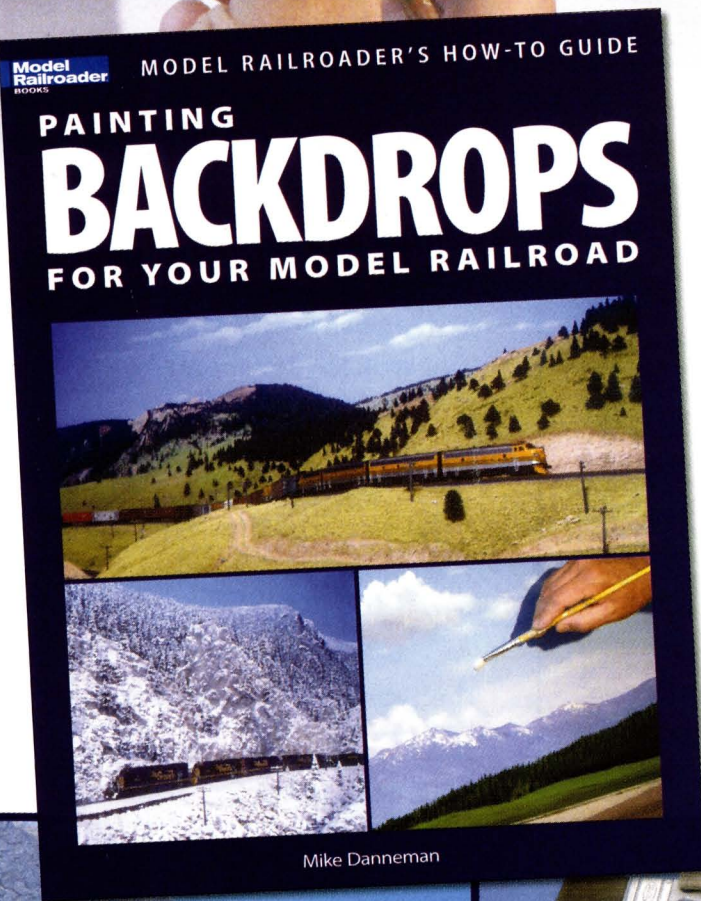
ClassicTrains

MAGAZINE

Subscribe Today!

1-800-533-6644

www.ClassicTrainsMag.com



Paint a perfect backdrop

You'll learn how easy it can be to add a lifelike backdrop to your model railroads. *Painting Backdrops for Your Model Railroad* lets you know what you'll need to paint a backdrop, how to build and blend it into your layout scenery, and offers instructions on how to build specific backdrops with themes such as Midwestern, mountain, desert, city or town, and even how to add clouds. It's a must-have guide for model railroaders wanting a realistic background.

12425 • \$18.95



www.ModelRailroaderBooks.com

Available at hobby shops.

To find a store near you visit www.HobbyRetailer.com

Call 1-800-533-6644

Monday - Friday, 8:30 a.m.-5:00 p.m. Central Time. Outside the U.S. and Canada, call 262-796-8776.

PMK-ADH-08X1394RH

**Model
Railroader
BOOKS**

M2092

Product Reviews



Three-dome tank car is perfect for small industry

This three-dome tank car, a new model that Micro-Trains Line has released in three road names so far, is a good-looking car that belongs on any steam-era N layout.

The prototype was built by American Car & Foundry in the 1930s and '40s. The car carried loads such as different grades of petroleum products.

The three-dome tank car could more correctly be called a three-tank car. Its body is divided into three compartments of differing size, allowing it to carry three different cargos. This makes the car ideal for smaller industries that wouldn't generate enough business to receive full-car loads. For example, a fuel dealer might get one of these cars laden with gasoline, kerosene, and fuel oil.

The model matches the appearance of a car pictured in the 1937 *Car Builder's Cyclopedia*, right down to the placement of rivet bands and brake equipment. Only pressure vents on the sides of the domes are relocated to their tops.

The tank is made with new tooling, and the engineering shows. The model features fine rivet detail, thin wire handrails, and an acetal plastic brake wheel that measures a scant .004" thick.

The lettering printed on our samples was for the most part crisp and opaque. All of it was legible under magnification, even the .01" high car data near the ends. There were tiny voids in some of the letters on the car, but these were visible only under extreme magnification.

My only quibble with the car is one it shares with a lot of other N scale rolling stock: the wheels. The

▶▶ N scale tank car

Price: \$22.70

Manufacturer

Micro-Trains Line

P.O. Box 1200

Talent, OR 97540

www.micro-trains.com

Road names: Anderson-Pritchard Oil Corp. (silver), Shell Chemical Co. (orange), and Pan-Am/Shipper's Car Line (black)

▶▶ N scale tank car features

33" one-piece molded plastic wheelsets, in gauge (flanges too large)

Micro-Trains magnetic knuckle couplers, truck-mounted, at correct height
Wire handrail

model rides on scale 33" wheels with flanges that are too large. Though the car rode just fine on the code 80 Atlas track on our Carolina Central project layout, on code 55 track the flanges bump along on the ties. This is easily remedied by replacing the one-piece molded plastic wheelsets with low-profile wheels from Micro-Trains, Atlas, InterMountain, or NorthWest Short Line.

Overall, this new tank car by Micro-Trains Line is a good-looking piece of equipment that brings versatile operating options to layouts set from the 1930s to the steam-diesel transition era. —
Steven Otte, associate editor

Timberline Scenery

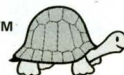
Introduces

New, easy to open packaging!!!
Same great quality...brand new look!
Try 'em...you'll like 'em!!!

www.timberlinescenery.com



Tortoise™



Slow Motion Switch Machine

800-6000 \$18.95

6006 6-PACK \$110.00

6012 12-PACK \$210.00

MADE IN THE USA

- Enclosed Gear Drive Mechanism (NOT a Screw-Drive Machine!)
- Simple Mounting - All Linkage Included!
- 2 Sets SPDT Auxiliary Contacts

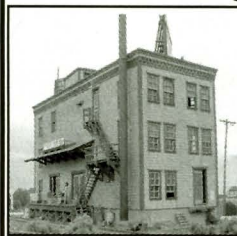
AT YOUR LOCAL HOBBY SHOP OR DIRECT
INCLUDE \$7.00 FOR SHIPPING & HANDLING

Send SSAE for more info or \$7.00 for complete
60 page Catalog & Application Book to:

CIRCUITRON

211 RocBaar Dr., Romeoville, IL 60446-1163

American Flag Company



A perfect industry for that tight V-shaped space. The trapezoid shape, loading dock, billboard, water tank, positionable windows and doors, and many brass & pewter detail castings make this laser-cut craftsman

kit a 'must have.' Figures, signs, interior floors and walls, and grade crossing components are all included. Approx. footprint - 73' x 40'.

#28108 HO Scale \$189.95
+ \$5.00 shipping in the US

O and S Versions Soon!

We Have Moved!

New Address Below!

B.T.S.

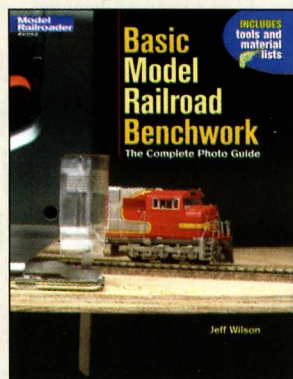
www.btsrr.com

RR 1 Box 141A
Belington WV 26250
Phone: 304-823-3729
Fax: 304-823-2901

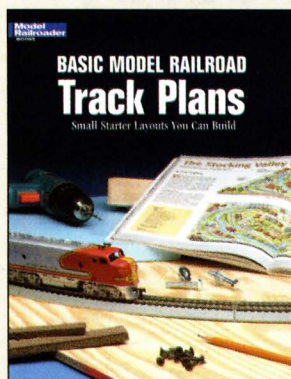
Basic necessities

TO GET YOUR MODELING STARTED

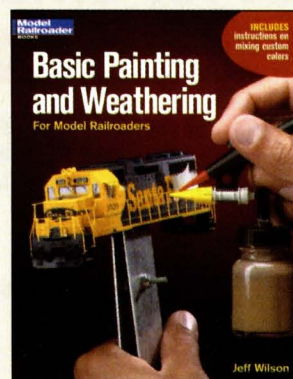
BASIC SERIES



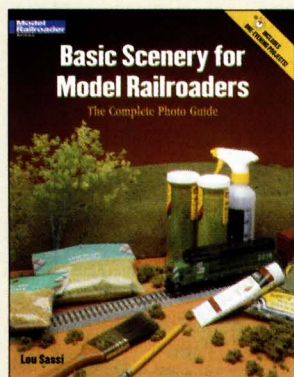
Step-by-step instructions and illustrations take the mystery out of constructing benchwork. Covers the materials and tools for making benchwork for any layout. 96 pages.
12241 • \$18.95



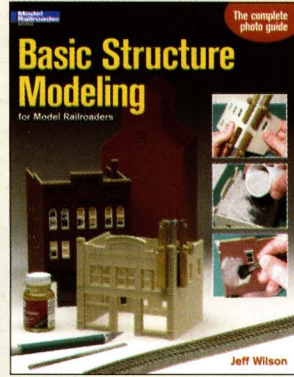
Presents simple layout designs that are ideal for beginners. Features full-color plans and construction techniques for HO and N scale starter layouts. 64 pages.
12237 • \$16.95



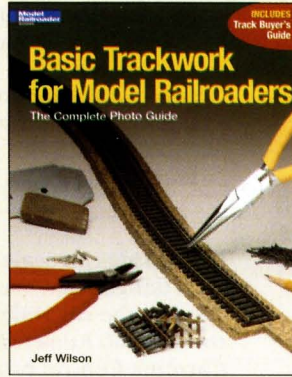
Get introduced to the tools, products and techniques, and then learn how to strip paint, prepare models, airbrush, decal, weather, and more. 80 pages.
12247 • \$19.95



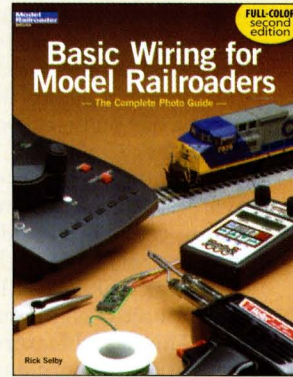
Learn how to construct the scenery elements that help you create a realistic layout in any scale. Covers rocks, trees, ground cover, water, pavement, and fine details. 96 pages.
12233 • \$19.95



The photo-driven projects demonstrate the tools, materials and techniques used to modeling structures, while offering techniques for realistic painting, weathering, detailing, and more. 88 pages.
12258 • \$19.95



Presents easy-to-follow techniques for installing sturdy trackwork, fitting roadbeds, laying track, and finishing with lineside details. Also covers turnouts, cleaning, maintenance, and more. 88 pages.
12254 • \$19.95



Offers simple and clear instructions for wiring projects such as block wiring, turnout wiring, loop track wiring. With other principles essential to layout building as well. 80 pages.
12412 • \$19.95

www.ModelRailroaderBooks.com

Available at hobby shops.

To find a store near you visit www.HobbyRetailer.com

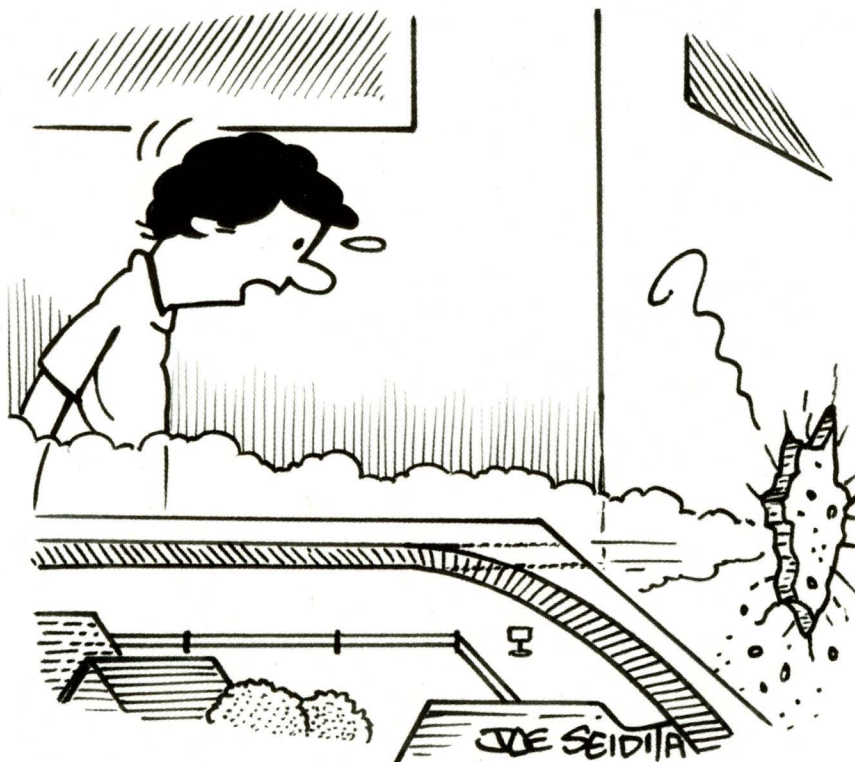
Call 1-800-533-6644

Monday-Friday, 8:30 a.m.-5:00 p.m. Central Time. Outside the U.S. and Canada, call 262-796-8776.

PMK-ADH-08X1254RH

**Model
Railroader
BOOKS**

M2091



"Now I know why that new locomotive is called the 'Silver Rocket!'"

märklin Roco

TRIX, FLEISCHMANN, BRAWA, FALLER, AND MORE!
SPECIALISTS IN EUROPEAN MODEL RAILROADING

Get Started in DCC

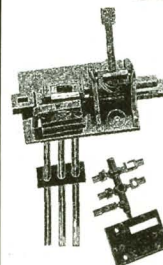
with our great selection of Starter Sets & DCC systems. Start Sets in all scales & price ranges.



EURO RAIL HOBBIES & MORE INC.

www.EuroRailHobbies.com / Toll-free 1-866-799-6098

GROUND THROW with CONTACTS



Upgrade of old, now obsolete units. Insert molded stationary contact. 5 selectable end connectors and shim if needed for height. Black delrin with external cam for strength. Sprung stand has internal springs for over travel and point tension. Non-rated "SPDT" contact to power relay coil, LED's, etc. Stationary leads are 2" long for undertable wiring. HO & N Scale with .165" travel. Connectors are as follows:

Hole for PECO
Flat blade for ROCO
Hook for Atlas
Sm. Pin for Micro Eng.
Lg. Pin for others

119R Rigid\$5.48
220S Sprung\$5.70

STANDARD GROUND THROWS



HO Scale with .190" travel

101R Rigid\$3.03
202S Sprung\$3.20
5202S\$15.25

N Scale with .135" travel

105R Rigid\$3.13
206S Sprung\$3.30

Atlas "Mark 2" & O Scale w/ .280" travel

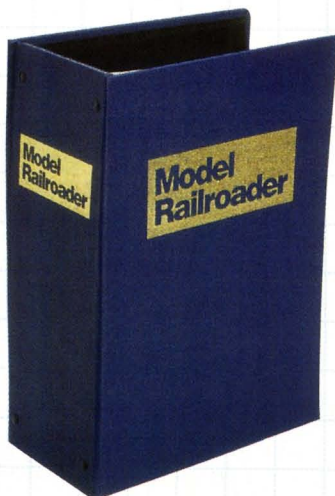
107R Rigid\$3.23
208S Sprung\$3.40



CABOOSE INDUSTRIES

AT DEALERS OR DIRECT
Add \$4.00 handling per order
IL residents add 7.5% sales tax
8511 W. MOUND RD.
LENA, IL 61048-0697
www.cabooseind.com

Protect your investment



Preserve your library of *Model Railroader* magazines with durable hardcover binders.

Item No. 14001

1 for \$13.95 • 3 for \$38.95

5 for \$59.95

Order yours today!

Model Railroader BOOKS

www. ModelRailroaderBooks.com

Available at hobby shops. To find a store near you visit www.HobbyRetailer.com

CALL 1-800-533-6644

Mon-Fri, 8:30am-5:00pm Central Time
Outside the U.S. and Canada,
call 262-796-8776

FAX 262-796-1615

TO ORDER BY MAIL:

Send your order to Kalmbach Publishing Co., Dept. M2020, 21027 Crossroads Circle, P.O. Box 986, Waukesha, WI 53187-0986. Use chart for shipping & handling charges.

MERCHANDISE TOTAL

\$15.00 or less \$4.95
\$15.01-\$30.00 \$5.50
\$30.01-\$50.00 \$6.50
\$50.01-\$75.00 \$7.50
\$75.01 or more \$8.50

ADD

Canada add an additional \$2.00, other foreign add an additional \$5.00. For Wisconsin delivery, add 5% sales tax to total; for Pennsylvania delivery, add 6% sales tax to total. For delivery in Canada add 5% GST to total. Payable in U.S. funds. Prices and availability subject to change.

M2020

MYTHBUSTERS

INSURANCE MYTH:

My collection is covered by my homeowners' insurance.

THE FACTS:

In most cases, your homeowners' is not nearly enough to protect your collection.

COLLECTIBLES
INSURANCE SERVICES, LLC

Visit www.collectinsure.com

to find out why and get an instant quote, or call

888.837.9537

For a full list of mythbusters, visit our website.

No matter the space, there's a **layout solution!**

102 Realistic Track Plans

Compiled from the pages of *Model Railroader* magazine and inspired by the 1956 book *101 Track Plans for Model Railroaders*, this special issue brings you 102 track plans, plus clearance charts, grade characteristics, and more.

102 Realistic Track Plans presents a large assortment of 4' x 8' to basement-size plans for N, HO, and O scale layouts, with all-new descriptions of operation, scenic elements, and more for each layout.

PLUS along with your order, we'll send you the **6 Railroads You Can Model** bonus booklet.

\$6.95 U.S.

\$8.00 Canadian and Foreign

This special issue arrives in late November 2008

Order online at

www.ModelRailroader.com/MR5 or call 1-800-533-6644



831 NW 143RD STREET MIAMI, FL 33168-3017

Tel:(305) 688-8868 Fax:(305) 948-0339

E-Mail: rtrtrains@aol.com

www.ReadyToRollTrains.com

ORDER LINE:1-877-RTR-TRNS(787-8767)

MON 11-5 TUE-FRI 10-6 SAT 9-6

WALTHERS HO PASSENGER TRAIN

NYC 20TH CENTURY LIMITED

ENGINES w/DCC&SOUND + CARS CALL



MTH MEGA-STATION

MOHAWK -- SD-70ACe

KATO N-SCALE SPECIALS

AMTRAK SUPERLINER PACKAGE

F-40PH 2-PK+BOTH SUPERLINER 4-PKS \$284.99

SOUTHERN PACIFIC DAYLIGHT

PASSENGER TRAIN PACKAGE

4-8-4 GS-4 #4449 + 10-CAR SET \$314.99

4-8-4 GS-4 #4449 + 18-CAR SET \$454.99

SANTA FE PA-1 ABA \$189.99

NYC PA-1 AB OR D&H PA-1 AA \$119.99

YOUR SOURCE FOR MODEL RR SOUND-EQUIPPED ENGINES

ATHEARN GENESIS ENGINES

4-6-6-4 UP CHALLENGER (3 #'s) 287.99

4-8-4 UNION PACIFIC FEF-2 319.99

F-3 OR F-7 A/B (BOTH POWERED) 309.99

F-3A OR F-7A (POWERED) 159.99

F-45 OR FP-45(NEW RUN) BN,MRL,SF,SUSQ 189.99

MP-15AC (NEW RUN) MANY ROADS 189.99

ATLAS "GOLD EDITION" DIESEL ENGINES

B23-7 B30-7 159.99

SD-35 SD-24 SD-26 179.99

DASH-8(PRE-11/2007) FM TRAINMASTER 199.99

DASH-8(NEW RUN) CSX SF UP 219.99

MP-15DC(NEW RUN) AMTRAK 219.99

BLACKSTONE MODELS HO#3 CALL

RIVAROSSO

C&O ALLEGHENY 2-6-6-6 399.99

ATLAS NON-SOUND IN-STOCK DIESELS

WORLD-WIDE SHIPPING Prices listed are for mail order only and subject to change. Quantities are limited. Not responsible for errors in printing. Florida residents add sales tax.

Available-Give Us A Call Non-refundable UPS shipping charges additional; minimum shipping charge \$9.00. 10-day returns for unused goods; 15% restocking fee.

MTH ELECTRIC TRAINS

NYC 4-8-2 MOHAWK 399.99

PRR K-4 4-6-2 PRE- OR POST-WAR 329.99

ERIE OR VGN 2-8-8-2 TRIPLEX 459.99

GS-4 SP, BNSF, WP, AFT GS-6 TOO 389.99

SP "DAYLIGHT" 8-CAR PASS SET 449.99

ADD-ON ARTICULATED COACH SET 119.99

ADD-ON CHAIR PASSENGER CAR 64.99

SD-70ACe MULTIPLE NAMES & NUMBERS 229.99

DCS COMMANDER 129.99 w/100w PWR 199.99

BROADWAY LTD BLUE-LINE ENGINES CALL

N-SCALE SPECIALS

P2k 2-8-8-2 ATSF, N&W, PRR, UP, VGN 219.99

ATHEARN CHALLENGER OR BIG-BOY 319.99

KATO HI-SPEED PASSENGER TRAIN SETS CALL

ATLAS & MTL FEC GP-40+ORTNER 6-PK 239.99

PROTO-2000 HERITAGE STEAM

0-8-0 MANY ROADS TO CHOOSE 239.99

2-8-4 PERE MARQUETTE 279.99

2-8-8-2 PENNSYLVANIA 329.99

2-10-2 BLE,CBQ,C&S,ERIE,IC,PRR 284.99

PROTO-2000 DIESELS

F-7AB(PWR'D)ATSF,DRGW,NYC,UP 279.99

GP-7 ATSF, CHESSIE, PRR 169.99

GP-20 ATSF BN(HH) UP(HH) 189.99

GP-30 ASST'D ROADNAMES 189.99

H10-44 B&O,CNJ,CNW,MR,NKP,NYC,PRR,SF 159.99

RS-27 CR, DEMO, PRR, SOO, UP 189.99

SD-7/9 B&LE CNW 159.99

SW-8/900 CR N&W SP 185.99

U-30B ACL SAL 139.99

ROUNDHOUSE 4-4-0,2-6-0,2-8-0 179.99

KATO CALL

N & Z Scale Runner Packs

As the quality and reliability leader in N & Z scale model railroading, Micro-Trains is pleased to offer four-car N & Z Scale Runner Packs for the modeling enthusiast.

Each Runner Pack features a freight car in a popular road and body style, presented with four different road numbers. All models are crafted with the prototypical accuracy, detail and reliability for which Micro-Trains is renowned, including our Magne-Matic® hands-free couplers.



Shell Oil Company
#993 00 025...\$69.95



Atchison, Topeka & Santa Fe
#994 00 003...\$64.95

MICRO-TRAINS®
LINE

Available through your local authorized Micro-Trains dealer

©2008 Micro-Trains Line Co. • P.O. Box 1200, Talent OR 97540-1200 USA

Web: www.micro-trains.com • Email: mtl@micro-trains.com



CABOOSE HOBBIES®
THE WORLD'S LARGEST MODEL TRAIN STORE

500 S. BROADWAY, DENVER, CO 80209-4002

Toll Free (Orders Only): (800) 886-1813

Phone: (303) 777-6766 ~ Fax (303) 777-0028

www.cabooseshobbies.com

EMT
ELECTRIC TRAINS®

HO TRAINS THAT DO MORE

HO Scale Union Pacific SD70ACe Heritage Series

Features: Proto-Sound 3.0 • Remotely Controlled Proto-Couplers™ • Operating Ditch Lights • Lighted Cab Interior • Operates on 18" Radius Curves

Call for low Caboose Hobbies price! (MSRP: \$249.95)

Reserve yours today, estimated March, 2009 delivery



(O Scale model shown)

05078020071	MP #1982
05078020081	WP #1983
05078020091	MKT #1988
05078020101	D&RGW #1989
05078020111	C&NW #1995
05078020121	SP #1996

Also coming, check our website for details: BNSF • CSX • EMD Demo • KCS • MRL

Trackside Photos



A trio of HO scale Electro-Motive Division GP40s heads up a coal drag on the Craig Branch on "Chama 1978," a Denver & Rio Grande Western layout built by Mitch Valder of Rocklin, Calif., and Aaron Splawn of Roseville, Calif. Mitch photographed the scene outdoors in daylight.

Want to see your work in Trackside Photos?

Trackside Photos is a showcase for the work of *Model Railroader* readers. We encourage contributions. Send your photos (original color slides, 8" x 10" glossy color prints, or digital images 5 megapixels or better on CD-ROM) to: *Model Railroader*, Trackside Photos, P.O. Box 1612, Waukesha, WI 53187-1612. Include caption information, such as a description of what's going on in the picture; the name, scale, era, and locale of the layout; and information about the rolling stock or structures pictured. For a copy of our photo submission guidelines, contact editorial associate Eric Stelpflug at 262-796-8776, ext. 583, or mrmag@mrmag.com.



A Rochester, Syracuse & Eastern RR 2-8-0 pulls a fast freight across the upper bridge just as a Shay with a local crawls by on the bridge below. The meet took place on Brian Curry's N scale layout, which was open for tours during the National Model Railroad Association's Northeast Region Convention in Syracuse, N.Y., in September. Jeff Paston photo



Trackside Photos



Otter Creek & Ripton engine no. 3 blasts under “The Cliffhanger,” a favorite sight for tourists on the steeply graded railway, which is set in Vermont. The On3 scene was inspired by similar rock formations layout owner David McLeod of Burlington, Vt., saw on lines in Alaska and Sri Lanka. David took the photo.

Fresh from the paint shop, Alco S-2 switcher no. 252 spots a chlorine tank car at Kaetelyn Chemicals on Roger Cason’s HO scale Delaware & Western RR. Roger shot the photo.

An Electro-Motive Division GP20 pulls a block of refrigerator cars on Sergio Milko's HO scale Atchison, Topeka & Santa Fe. Sergio, who lives in Ituzaingó, Argentina, has never visited the southwestern United States, but models the area based on photos, using Woodland Scenics and Silflor scenery and natural materials. Sergio took the photo and added the back-drop electronically.





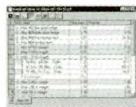
RR-TRACK

for Windows™
Sectional Track Layout Software

New v4.01!

Track libraries for:
HO, N, TT, Z, O, S, G

Design in 2D and
visualize in 3D. See
our website for more
details on features
and bundles.

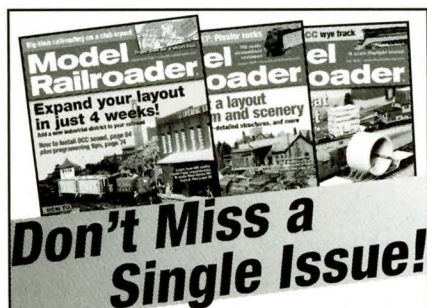


Requires Windows 95,
Windows 98, Windows NT 4,
or Windows 2000. OpenGL
graphics required for 3D
visualization.

R & S Enterprises
POB 643, Dept. MRR
Jonestown, PA 17038

• **\$79 for base system**

website: www.rrtrack.com



Don't Miss a Single Issue!

Every issue of *Model Railroader* includes intriguing articles that take you on a tour of the world's finest layouts.

You'll discover:

- A wealth of prototype data
- Detailed how-to instructions
- Product reviews
- Tips & techniques
- And so much more!

Plus you'll receive online access to premium subscriber-only content.

Visit
www.modelrailroader.com
today!

Get your hobby how-tos and hints in a hurry!

Visit the Downloads section on
ModelRailroader.com and download
PDFs instantly to your computer!

Information Station is a quick and convenient way to get the modeling information you want. Just click the PDF you want, buy it, and use it right away! Each PDF is a compilation of popular model railroading articles and includes great photos and detailed how-to instructions for all skill levels.

Choose from:

- How-tos
- Layout visits
- Track plans
- Video PDFs



Just click it.

Buy it.

And use it today!



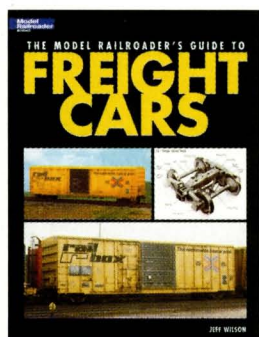
**Model
Railroader**
www.ModelRailroader.com

CIR-ADH-08X1406RH

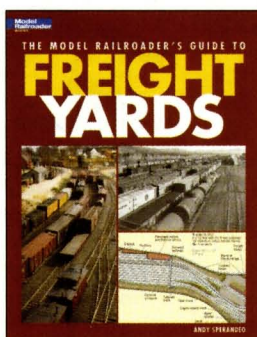
EXPAND YOUR KNOWLEDGE

WITH THE MODEL RAILROADER'S GUIDE TO SERIES

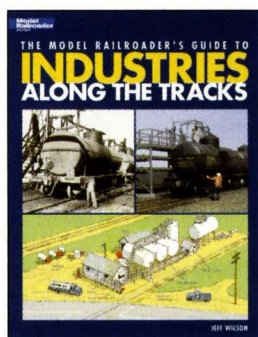
GUIDE TO SERIES



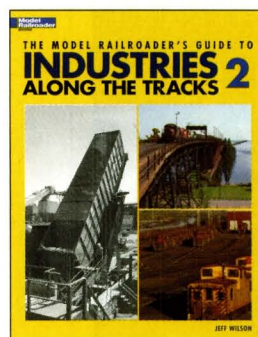
Get a brief history of each type of North American freight car, then learn how car designs have changed from WWI to the present. 96 pages.
12450 • \$19.95



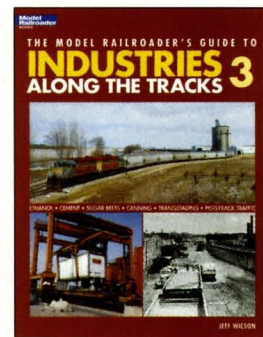
H0 and N scale illustrations plus prototype and layout photos introduce modelers to designing, constructing and operating a realistic freight yard. 80 pages.
12248 • \$18.95



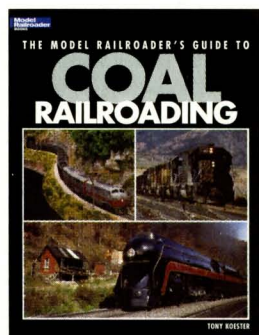
An overview of North American mining, refining, and agricultural operations served by the railroads, and the specific techniques used to model them on a realistic layout of any scale. 88 pages.
12256 • \$19.95



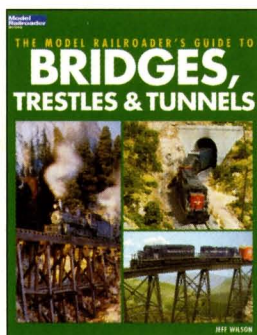
Includes overviews of creameries and milk traffic, the paper industry, breweries, iron ore mining and transloading, freight houses, and coal customers. 88 pages.
12409 • \$19.95



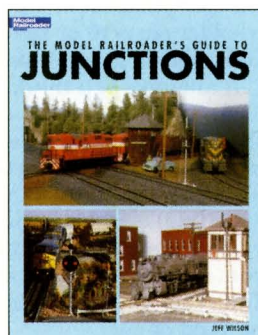
You'll learn how to realistically recreate and incorporate industries such as ethanol, cement, canning, and sugar beets into your layouts through prototype photos and modeling suggestions. 88 pages.
12422 • \$19.95



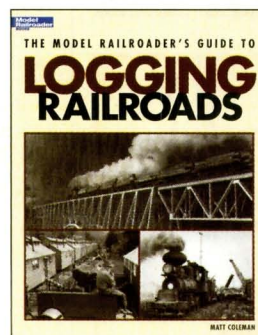
A reference for modeling a coal-hauling prototype-based or freelance railroad with information on modeling coal trains, company towns, and coal customers. 96 pages.
12453 • \$19.95



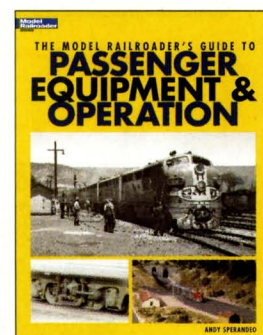
Overview of different types of bridges, trestles, and tunnels, featuring prototype information and modeling projects. 88 pages.
12452 • \$19.95



Photos, drawings, and sidebars illustrate how junctions work with techniques for modeling functional ones in any scale. 88 pages.
12408 • \$18.95



Explains the business of logging railroads and gives examples of prototype operations. Photos of locomotives, equipment, and structures set the stage for layout design. 80 pages.
12423 • \$18.95



Offers insight and instructions for integrating realistic passenger trains and operations into any layout with tips for modeling equipment, structures, trackage, and details. 96 pages.
12244 • \$19.95

www.ModelRailroaderBooks.com

Available at hobby shops.

To find a store near you visit www.HobbyRetailer.com

Call 1-800-533-6644

Monday – Friday, 8:30 a.m.–5:00 p.m. Central Time Outside the U.S. and Canada, call 262-796-8776.

PMK-ADH-08X1309RH

**Model
Railroader
BOOKS**

M2090

DOMINO BENCHWORK



**MODULAR,
PORTABLE &
EXPANDABLE**

2' x 4' modules lock together to form virtually **ANY** size and shape. No tools needed for setup!

Martin and Johnson, Mfg.

38605 Adcock Place
Fremont, CA 94536

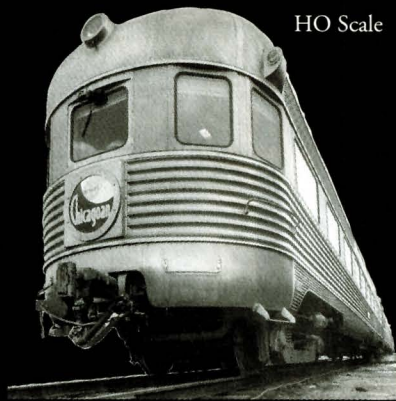
510-648-9037

www.martinjohnsonmfg.com

martin-johnson-mfg@sbcglobal.net

SANTA FE CHAIR CAR TRAINS

HO Scale



The Coach Yard

Committed to Excellence

www.thecoachyard.com

Litchfield
STATION

NEW

Sound Decoders:

SoundTraxx'

Diesel Tsunami &

QSI's Revolution

Making DCC Fun!

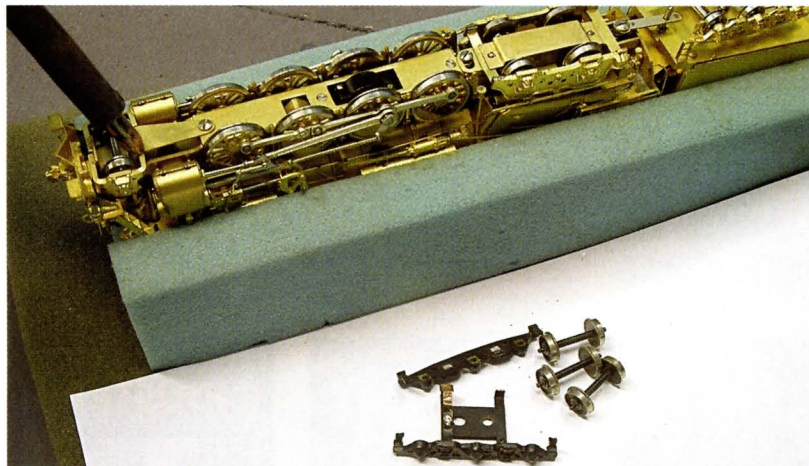
www.Mr-DCC.com

623-298-7355

Trains of Thought

Fixing brass steamers

Tony Koester



In attempting to fix one of his brass steam locomotives, Tony applied heat from a soldering iron to the lead truck . . . only to have the rear tender truck fall apart in the process! Tony Koester photo

When I was just getting serious about scale model railroading, I read all of the how-to tips and techniques printed in these pages and attended model railroad conventions to learn from the experts. In so doing, I picked up a couple of bits of knowledge that I should now pass along to a younger generation. To wit: how to solder parts to or remove parts from a brass locomotive.

It ain't like you think.

Decades ago, some wise person prepared a detailed list that the unsuspecting, ill-informed neophyte (me) could use when, say, trying to remove the sand dome from a brass steam locomotive. Hint: You don't apply the heat to the sand dome.

In fact, should you innocently apply heat from a big soldering iron or torch to said dome, the pilot will fall off. That will induce several health problems ranging from rapid heartbeat to sweaty palms, causing you to drop the engine and damage the cab.

Should you then, in utter stupidity, submit the damaged cab to heat in a vain attempt to repair it, the air compressor will fall off. If the fall bent the locomotive's stack, heating it will cause the

steam dome and bell to drop to the floor. And so it goes.

The late John Armstrong, who was among the most cerebral of model railroaders, once prepared a chart that showed the increasing amount of pain that a model steam locomotive would inflict upon its owner as the radius of the curve he or she wants it to negotiate decreases. Yet going the other way, as the curve radius approaches infinity – that is, a straight line – the pain never goes to zero.

I can add to John's findings: If a model steam engine is sitting off the track on your workbench, it will still inflict pain. You think I'm exaggerating? Have a seat; let's talk.

One of my prized brass Berkshires decided that things were going too well two operating sessions ago and caused its lead truck to derail. Never mind that it had operated over tighter curves on my previous layout, the Allegheny Midland, for years without a hiccup; it decided it was time to cause problems.

I investigated and found the tongue of the lead truck was worn thin and had bent around the mounting-screw hole, preventing the truck from pivoting as it should. I set it aside for repair.

The day before the next session, I flipped the 2-8-4 upside down in a foam cradle, then removed the lead truck. I applied a coat of silver-bearing solder to the thin pivot-hole area, reamed out the screw hole, and filed down the solder to form a smooth, but thicker, tongue. No sweat.

Then I flipped the engine right side up and placed it back on the rails. Everything seemed fine until I heard a rattling sound coming from far astern. To my horror, I saw that the rear Buckeye six-wheel tender truck had fallen apart. Clearly, I had forgotten the rule about heating the lead truck causing the solder joints in the rear tender truck to fail.

This was no time to mess with soldering the sideframes back to the bolster – there was no telling what trouble that would have caused elsewhere – so I replaced that truck with another from a sister brass Berkshire sidelined with a blown decoder.

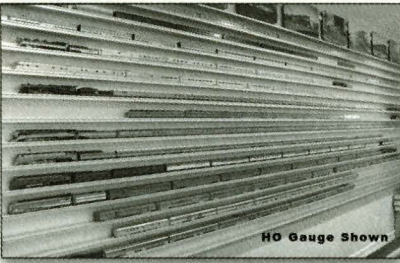
Once again, I flipped the engine to the wheels-down position and discovered I had two separate models in my hands – the engine in my left hand and the tender in my right – whereas moments before they had been connected by a drawbar. The plastic boss into which the drawbar screw is mounted had pulled loose from the frame under the cab.

Some cyanoacrylate adhesive (CA) and colorful language (CL) later, all was well, and the engine was at last on the rails for a test run. And it ran fine – for about an inch. Then – bzzzt! – it stopped. A short had been added to the list of the evening's entertainment.

I turned the lights out and saw a spark near the lead truck (back where we started, you'll recall). After several vain attempts to pin it down, I coated the entire area with Scotch tape and clear finger-nail polish (which my wife will discover missing any day now) – and still had a short. Long story "short," I discovered it was a turnout set against the engine, not the engine at all (for once).

Moral of the story: Listen to your elders, especially John Armstrong. **MR**

SHOWCASE-EXPRESS
Wall to Wall Expandable Display Case
Case Sizes Available: Z, N, HO, S, O, G #1 & Standard



HO Gauge Shown

Lighting Kits & Backgrounds Available

Join Top to Bottom or End to End **1-866-464-5535**

WWW.SHOWCASE-EXPRESS.COM

Model Railroad Speedometer



- Two versions available.
- Displays the scale speed of your train.
- DCC or DC compatible.
- Works for all scales.



Manufactured by :

TDP & Associates, Inc.
4 Jones Drive • Boothwyn, Pa. 19061
(610) 358-0460
www.trainsspeed.com
Dealer inquires welcome

NICHOLAS SMITH TRAINS
2343 West Chester Pike • Broomall, PA 19008
(610) 353-8585 • ESTABLISHED 1909

MINIMUM ORDER: \$30.00 • 10% Restocking charge on returns.
For orders only, dial (800) 848-9119 • Fax (610) 359-9846
All orders under \$300.00, add \$9.00 for shipping & handling.
Orders over \$300.00 shipped FREE in continental U.S.A. Excluded items are track, power and control items, sets, and oversize items.
No P.O. Box #'s, PA residents add 6% sales tax.
Prices Subject to Change Without Notice.

STORE HOURS: M, W, F 10-9 • Tu, Th 10-7 • Sat. 10-5 • Sun. 10-5 (Nov. & Dec. only)
www.nstrains.com • www.nstoys.com





LIONEL					
11004	Nascar Set	99.95	25446	SF Super Chief 2 Pack	154.95
11005	Dale Earnhardt Set	179.95	25450	PRR 18" Alum. 4 Pack	399.95
11006	Kasey Kahne Exp. Pack	29.95	25455	PRR 18" 2 Pack	219.95
11009	Tony Stewart Exp. Pack	29.95	25458	PRR 18" Sound Diner	209.95
11010	Jimmie Johnson Exp. Pack	29.95	25521	B&O HW 4 Pack	354.95
11011	Jeff Gordon Exp. Pack	29.95	27210	PRR PS-1 Boxcar	41.95
11020	Harry Potter Set	209.95	28241	CN&W U30C	379.95
31956	Thomas and Friends Set	119.95	28245	Chessie SD-40	254.95
30018	Pennsylvania Flyer Set	119.95	28252	SP U33C Dummy	132.95
31963	SP FRT Set	309.95	28253	CN&W U30C Dummy	132.95
30050	PRR Mikado Set w/CMD	359.95	28272	I Love USA SD60	208.95
30026	CP Set	429.95	28403	PRR Ballast Tamper	38.95
30056	Halloween Set	149.95	28411	Missile Launcher Loco	244.95
30021	Cascade Logging Set	127.95	28414	3360 PW Burro Crane	132.95
11100	PRR Mikado	289.95	28680	Reading 0-4-0	142.95
11105	NYC Mohawk	974.95	28695	Halloween Docksider	89.95
11107	SP Cab Forward	759.95	28864	UP RS-3	72.95
11109	C&O 0-8-0	354.95	28866	NYC GP-20	71.95
11110	NYC 0-8-0	354.95	29182	N&W 18" 4 Pack	399.95
11119	Southern 0-8-0	339.95	29187	N&W 18" 2 Pack	214.95
14584	Wabash F3 Dummy A Unit	149.95	29811	Merchant's Hot Box Reefer	56.95
14596	NH Alco PA A-A Set	589.95	29812	ATSF Hot Box Reefer	56.95
15315	ATSF Alum. Pass 2 Pack	199.95	29813	SF Boom Car w/Crane sound	154.95
15319	ATSF Surliner 2 Pack	147.95	29814	PRR Boom Car w/ Crane sound	154.95
15554	PRR HW 3 Pack	274.95	29830	PFE Hot Box Reefer	56.95
15559	PRSL HW 3 Pack	274.95	29831	Swift Hot Box Reefer	56.95
15574	Long Island HW Coach	97.95	31706	UP Burro Crane Set	179.95
15577	NYC HW 3 Pack	259.95	31750	NYC Hot Box Reefer Set	298.95
15581	NYC HW Coach	91.95	34508	PRR E7 A-A	579.95
15584	Acela 3 Car Set	439.95	36534	NYC Caboose Center Cupola	28.95
15588	Southern HW 4 Pack	319.95	36547	Bethlehem Steel Transfer Cab	28.95
17474	D&H Gondola w/Load	46.95	36550	Halloween Transfer Caboose	32.95
18364	PRR BB-1 2 Pack	579.95	36560	C&O Caboose	33.95
18371	Tuscan 5 Stripe G6-1	789.95	36593	NYC Caboose	33.95
18372	Green Single Stripe G6-1	789.95	36782	Jumping Disney Boxcar	38.95
18374	Congressional G6-1	684.95	36783	Disney OP Boxcar	44.95
19266	6464 3rd Edition 3 Pack	159.95	39092	PAR Streamliner 2 Pack	81.95
19292	6464 Series V1 3 Pack	132.95	39092	PRR O27 Pass 2 Pack	81.95
19874	Target Launcher Car	42.95	39099	C&A 2 Pack	169.95
21877	Domino Sugar Tank Car	98.95	39273	6464 Archive 3 Pack	99.95
21879	C&E Hopper 3 Pack	102.95	39443	US Steel Slag Car 3 Pack	124.95
25114	Lionel Lines Pass 3 Pack	87.95	48041	UP Mikado	519.95
25156	Zephyr Streamline 4 Pack	147.95	48042	Southern Mikado	459.95
			48047	UP 4-8-4 Northern	439.95
			48053	PRR Mikado	519.95
			49614	PRR Pass Set	479.95

Woodstock Hobbies
 Trains and Accessories for G, O, S, HO, N and Z, plus track, buildings, people, scenery and more!
Athearn, Atlas, Bachmann, Kato, Lionel, M.T.H., Roundhouse, Woodland Scenics, and others!
 Lionel Hogwarts Express In Stock
 Shop our online warehouse: www.woodstockhobbies.com

www.BILLS TRAINS AND TRACK.COM
 • PRE-ORDER YOUR LIMITED EDITION ATLAS
 • Full line of PECO and ATLAS Track
 • HO and N
 • KADEE
 • CIRCUITRON (TORTOISE)
Everything over 30% off list price!
 NJ International Signals
 Bachmann Thomas
 phone: (347) 237-3533 e-mail: billstrains@aol.com

HUGE SELECTION
ALL SCALES
BESSEMER HOBBY
 Special runs! Bowser, Stewart, Branchline, Detail Parts, DCC & more!
 Secure Checkout! PayPal accepted!
 International shipping via USPS Priority Mail.
www.BessemerHobby.com

RAILTOWN WINDOWS™

 • Full color 3D effect interiors.
 • Say goodbye to empty windows.
 • Easy to install
 P.O. Box 15593, Scottsdale, AZ 85267-5593
www.railtownwindows.com

Allen Keller Productions
 The Original Producer of Model Railroad Videos
www.allenkeller.com

For Your Trains & Accessories
 Buying & Selling for 10+ years!
 Quick Payment
 J. Reeves & Co. dba J & T Junction
 1-800-701-7091 or 814-644-5757 (cell)
jandtjunction@hotmail.com

WIG-WAG, LLC
www.wig-wag-trains.com
 Personal service, Great pricing.
 Your N-Scale supplier! Actual cost shipping.
1-888-298-7177

WE PUT MODELLING BACK IN MODEL RAILROADING.
 OVER 60 EASY TO BUILD LASER CUT WOOD KITS IN HO AND N SCALE ARE AVAILABLE NOW AT YOUR DEALERS.
KANAMODEL PRODUCTS
 Colour photos and descriptions are available on our web site at: www.kanamodel.com

Now Available:
 Over 50 ATSF Prints
 30 SP Prints
 30 Great Northern Prints
 80 Union Pacific Prints
 15 DRGW Prints
 30 PRR Prints
 30 NYC Prints
 HO Brass list available on web
Many, many others. CHECK THE WEB SITE!
Trackside Prints and Hobbies
 Visit our new and improved Web site for RR Art & Brass Model Trains
www.tracksideprints.com
 281-814-0425 • jhink844@gmail.com
 P.O. Box 934 • Montgomery, TX 77356
 600 prints & vintage ads

GEODESIC FOAM SCENERY
 No plaster. Light, tough, beautiful, fast, easy.
RUBBER ROCK MOLDS
 World's largest selection.
WEATHER SYSTEM
 Self adhesive weathering powders.
BRAGDON ENTERPRISES
 SEE OUR COMPLETE CATALOG & MORE AT:
www.bragdonent.com
 2960 Garden Tower
 Georgetown, CA 95634
 phone (530) 333-1365
 fax (530) 333-1051

PROTOTYPICAL MODEL TRAINS
 Authentic HO Scale Model Trains & Railroad Products
www.prototypicalmodeltrains.com
 Model railroad products, locomotives, rolling stock, structures, signals, lighting, selected to create and demonstrate realistic appearance with DCC rail operations.
HOLIDAY PRICING YEAR ROUND
 e-mail: prototypicalmodeltrains@comcast.net
 Toll Free: 866-916-0834

Grand Central Gems Inc.
www.grandcentralgems.com Check our Web site!
modeltrees@aol.com E-mail us!
 Lodgepoles, Pine, Spruce, Aspen, Oak, Palm,
 Fruit trees plus Truss Bridges, Boxes, N-G
Call 1-801-891-7255

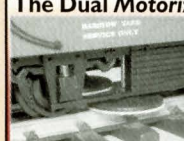
Expert secrets revealed on DVD!
 "Best money I have spent in a long time ..." - Robert H.
 • Layout design • DCC • Operations
 • Benchwork • Scenery • ... and more!
 For phone orders: 1-800-920-6020
model-trains-video.com

Highway Miniatures
 HO scale steam-era vehicle kits
 The **JORDAN PRODUCTS**
 Steam P.O. BOX 644
 Shovel's BRIGHTON, MI 48116
 Back
 Send For Free Info.

MAGIC WATER
 ORDER ONLINE:
WWW.UNREALDETAILS.COM
 OR CALL: (269) 468-7434
 DAVE WILLIAMS • UNREAL DETAILS
 357 MAPLE • COLOMA, MI 49038
 WON'T CRACK, YELLOW, SHRINK OR BUBBLE!
 NO ODOR, HEAT OR LAYERING! DEALER INQUIRIES WELCOME
 18 OZ. - \$29.95 96 OZ. - \$99.95

LEWIS COUNTY HISTORICAL MUSEUM
 in conjunction with the Lewis County Model RR Club
 Train Show & Swap Meet
OCTOBER 11, 2008
 from 9am to 4pm
 Admission \$5 adults, 10 and under FREE.
 Same weekend as the annual community garage sale at the fairgrounds. 6 foot vendor tables \$15 each.
 SW Washington Fairgrounds
 2555 N. National Ave., Chehalis, WA 98532

PC Ties
 and hard-to-find supplies
 Dry Transfer Lettering
 Scratch Building Supplies
N HO S O G
 Catalog #12
 78 Pg. \$6.00
www.CloverHouse.com
Clover House
 Box 62M, Sebastopol, CA 95473-0062

The Dual Motorized Track Cleaning Car

CLEAN & POLISH WITH POWER!!
MNP
 ALL SCALES
www.mnpinc.com
 Ph/Fx: (757) 596-2309
 MNP Inc. • 537 Hallmark Dr. • Newport News, VA 23606

Walkaround Throttles:
 With or w/o Memory:
 From: \$43.95

 • FAST CLOCKS
 • PARTS & WIRE
 • METERS
 Call/Write: **GML ENTERPRISES**
 3311 Thomas Rd. * Oxford, MI 48371
 248-628-4445
genelewis@sprintmail.com
www.theGMLenterprises.com

THE FLEA II™
 INTERGRATED SWITCH, SWITCH MACHINE AND DECODER

 The Flea II™ bottom view (Left hand switch)
NOW FOR BOTH DC AND DCC OPERATIONS

 The Flea II™ top view (Right hand switch ballasted)
 • Can be powered from rails or separate power supply
 • Improved drive mechanism
 • DCC, toggle switch or DCC / push button control
 • No drilling or mounting
 • Enhanced software
www.cypress-engineering.com

STORAGE BOXES
 A Superior Product
 Storage, Transport and Organization System to Protect and Preserve Your Model Train and Collectibles Investments
 Moisture Resistant • Durable • Economical • Efficient
 Z, N, HO, S, O27, O & N30 Scales
Train Boxes Plus
 Toll Free: 866-279-7550
 or 817-441-1516
www.trainboxesplus.com

Custom Layout Building
 By Lance Mindheim
Layout Design
www.shelflayouts.com
The Shelf Layouts Company, Inc.
301-404-8164

Northern Scale Models

 PO BOX 27354, MINNEAPOLIS MN, 55427
 Phone (763) 475-0647
 E-Mail: demoore@northernscale.com
 Consignment Selling, Collections & Estates Purchased
 Trades, Locating Models, \$1.50 for N, HO, or O list,
 Shipping Loco's \$9, cars \$8.
 Check out our website for inventory or contact us for individual models.
 Web Site: www.northernscale.com

CUSTOM BUILT STRUCTURES

by Chuck Hitchcock • (913) 381-4296
www.ChuckHitchcockStructures.com

CUSTOM TRAIN CONTROL PANELS



Model Train Control Panels & Wiring

- Custom built panel graphics
- Power blocks & turnout controls

FullThrottleTrains.com • info@fullthrottlettrains.com • 860-798-6987

BRING YOUR ENGINES TO LIFE WITH A PHOENIX BIGSOUND™



WWW.PHOENIXSOUND.COM
800-651-2444

TrainSetsOnly.com

✓Trains ✓Track ✓Accessories
Service you can count on!

The Best Ever Built



www.aztectrains.com

New!

Barber-Bettendorf Swing Motion Caboose Trucks



HO SCALE

Tahoe Model Works

FAX: 775-882-8813 Send SASE for flyers
5801 Sheep Dr. #7 • Carson City, NV 89701

CUSTOM MODEL RAILROADS

What-Detail!

Highly detailed layouts in any scale. Let us complete your unfinished projects- life-like scenery our specialty. Start to finish, we'll bring your railroad to life.

(978) 425-9832
(978) 424-3484



www.whatdetail.com

AVAILABLE FROM THE C&NW HISTORICAL SOCIETY

HO Scale C&NW #2 Section House with outhouse kit.....\$30.00
plus \$5.00 Shipping & handling • IL residents add \$2.78 tax per kit

To Order: C&NWHS-MR • P.O. Box 1068 • North Riverside, IL 60546
Visit us at WWW.CNWHS.ORG



WE BUY & SELL BRASS

VISIT US ONLINE
WWW.DONBLACK.COM
HUNDREDS OF PICTURED MODELS TO CHOOSE FROM

Don Black 119A Bernhurst Rd New Bern NC 28560
Toll Free 1-866 HO BRASS



RRTrains.com

The 1st Choice for Discount Model Trains and Hobbies

Shop RRTrains.com for the low prices, great selection and friendly service. We offer 30%-50% discounts off MSRP. Even deeper discounts if you sign up as a PREFERRED MEMBER! Call or visit today!

www.RRTrains.com
Toll Free 877-872-4600

Rix Products Pikestuff

Web site: www.rixproducts.com
Send LSASE for new 20 page catalog.
3747 Hogue Rd. Evansville In. 47712
Phone (812)426-1RIX FAX (812)423-3174

Model Railroad Structures & Accessories



STOP controlling your turntable with a doorbell pushbutton!

MSC1 is a new, precision electronic control for interactive positioning of your turntable! Walthers, Atlas, others. General purpose motor control tool! BNF1 is an electronic control for automatic Back and Forth operation of a trolley car, mine car, etc.

Secure Online Ordering Visa MC PayPal
Send SASE for Paper Catalog
636-448-9630
Digital Loco
68 Ginger Tree Ct.
O'Fallon, MO 63368



digitalloco.com

dunhamstudios.com



See what real Museum Quality looks like!

CORK ROADBED SWITCH PADS

Z • N • T • T • H • O • O

- PRE-CUT AND BEVELED
- FITS ALL POPULAR TURNOUTS



IBL PRODUCTS
5452 Cascade Dr., West Bend, WI 53095
(262) 675-6220
www.IBLProducts.com

HORNBY®

MODEL TRAIN CLASSICS, PLUS

306 S. Barstow Street • Eau Claire, WI 54701
Telephone: 715-838-8858

Model Memories

P.O. Box 722
Powhatan, VA 23139

- Assm'd & painted
- Black or Silver
- Lighted or unlighted
- (bi-color LEDs)
- 4 different signal configs.

SP, AT&SF, UP
Cantilever Signal
in fine-scale etched brass
\$125. as shown (unlighted)

email: modelmemories@aol.com
www.modelmemories.com



Trackside Layouts LLC

Design and construction of custom model railroads

Also available: DCC wiring, decoder installation

906-281-4814 www.tracksidelayouts.com

Yellowstone Train Repairs

Custom builds, Paint, Decals, Super Detail & Speciality Items For The Model Railroader Since 1988

Sites:
http://www.american-rails-forums.com
http://s235.photobucket.com/albums/ee42/Yellowstone_Train_Repairs/

Contact:
John Patton P.O. Box 275 Weare, NH 03281
Phone: (603)529-6169 E-Mail: yellowstone10@hotmail.com

NYC's Best Train Shop!

240 West 35th St.
Suite 800 A
NY, NY 10001

M-F 11-7 • Sat 11-5
1.888.NYRAILS
(1.888.697.2457)
212.643.4400

mail@gothammodeltrains.com • www.gothammodeltrains.com

GOTHAM MODEL TRAINS



European & American Trains!

ToyTrainHeaven.com

All Scales Available

Digital Sound Modules

Bring your layout to life with sound!
Trains, Animals, Nature, City, Industrial
These are just a few of over 100 sounds

HQ300 Grade Bell
HQ420 Barnyard
HQ505 Brook/Birds
HQ602 Industry
HQ610 Sawmill
HQ640 Honkytonk Bar
HQ646 Hobo Campfire
HQ651 Church Bell
HQ676 Circus Music
HQ672 Fire Station
HQ701 Track Crew

HQ Series \$34.95 ea.

Place these modules around the layout in buildings or on trains. Add power, a speaker, a switch & wow!

Speakers: (2" \$5 ea.) (3" \$7 ea.) (4" \$9 ea.) S&H \$7 USA

Arc-welder sound & flickering LED \$36.95
Hi Intensity Lightning & Thunder \$49.95

http://www.ittproducts.com
I.T.T.C. P.O. Box 5042 West Hills, CA 91308
818-926-1143 Dealers Welcome



ADLAKE MARKERS

- PERMANENTLY MOUNTED LENS
- SOLID BRASS
- HO-\$15.30 O-\$19.40 G-\$23.10



#807 RED-GREEN-GREEN LENS #809 RED-YELLOW-YELLOW LENS
VISA/MC Toll Free: 1-877-697-9731 Fax: 269-944-1901
WELCOME www.tamarindustries.com
TOMAR INDUSTRIES, 9520 E. NAPIER AVE., BENTON HARBOR, MI 49022

Custom N-DCC and HO too!

Authorized Dealer for ESU-LokSound and TCS
We install DCC decoders in N and HO scale locomotives.

- Custom sound recordings for LokSound decoders
- DCC programming
- Locomotive frame milling
- Locomotive lighting and effects
- Custom hand-crafted N scale wayside signals

info@customndcc.com • (619) 922-7123
www.customndcc.com

Osborn Model Kits

Putting a little Canadian in Railway Modeling

- Rail side scenery
- Buildings
- Wood Products
- Laser Cutting

We offer a complete line of Canadian rail side scenery product. See us at I Hobby Expo!

www.osbornmodelkits.com
Dealer Inquiries Welcome

HOBBY SPRAY PAINT BOOTHS

Starting at \$225.00

Free shipping

Three models to choose from!

TOLL FREE: 1-877-872-4780

www.PacePaintBooths.com

DCC & SOUND

QSI Revolution in Stock

Digitrax, SoundTraxx

LokSound, TCS

QSI Sound Decoders

1-877-600-8657

www.UlrichModels.biz

20th Annual Model Train Show

November 8th & 9th
Bluefield, WV

(304)431-2593

or (304)327-0026

nrhs.pocahontaschapter

@yahoo.com

After You've Looked at the Others...



MUSEUM QUALITY - CUSTOM

LAYOUT MODELING SERVICE

WHAT CAN WE BUILD FOR YOU?

www.PROGRESSIVEMODELDESIGN.COM

211 RocBaar Drive, Romeoville, IL 60446

(815) 886-9010 FAX: (815) 886-9076

ULTIMATE MODEL MAGIC™

märklin ...simply the Best!

For the BEST Combination of Price & Service!
Shipping WORLDWIDE since 1983
MODELBAHN OTT HOBBIES
1145 E. Philadelphia Ave., Gilbertsville, PA 19525
(610) 367-5925 M-Th 11-8, F 11-9, Sat 10-8, Sun 12-5
Orders 1-800-MDL-BAHN
http://www.modellbahnott.com
E-mail to: bill@modellbahnott.com

Kreig Haus Hobby and Coin

Full service brick and mortar hobby shop.
1000's of HO scale items in stock now
Quick shipping / Low prices
www.HobbyAndCoin.com

HOBBYSURPLUS.COM

Train Supplies up to 70% OFF

Over 12,000 bargains on line

or Send \$4 for our catalog:

HOBBY SURPLUS, PO Box 2170R, New Britain, CT 06050

www.mailcarhobbies.com

Your neighborhood hobby store...online.

1-800-990-9421

HO TRAINS • DIECAST • MILITARY
DISCOUNT PRICES • WEEKLY SPECIALS

ALL ELECTRONICS CORPORATION

LEDs, Switches, Terminals Strips & 1000s of Electronic Parts. Discount Prices. Fast Shipping!

www.allelectronics.com

Free 96 page catalog 1-800-826-5432

2ft. x 4ft. N Scale Layout

Ready-to-Run layout

- Atlas track included • Cork Roadbed
- Soldered rail joints • Wiring
- Professional quality materials and construction techniques

Visa and Mastercard accepted



\$194.95

shipping extra

MODEL RAILROADS BY CHRIS
Specializing in small N & HO layouts

5131 Mt. St. Vrain Ave., Frederick, CO 80504 (720) 494-9406

email: rxrchrisc@juno.com

Contact us for a free N or HO catalog

Call TODAY to order! 1-800-466-3131

Storage Boxes

Foam Lined
Self Closing
Fully Assembled

AXIAN TECHNOLOGY

623-580-0800

fax: 623-580-8008

21622 N. 14th Ave.

Phoenix, AZ 85027-2806



HO Scale

Holds 16 Cars - \$21.95

N Scale

Holds 48 Cars - \$21.95

Tote Bags

\$31.95

Plus S&H

Patented

U.S.A.

www.axiantech.com

ARRIVING SOON!



HO 50' 6 foot door Ribside boxcars
3 paint schemes

NEW!

Rib Side Cars 134 N. York Road, Bensenville, IL 60106
www.ribsidecars.com (630) 532-9875

SOLIDDESIGN LIMITED RUNS • ONE-OF-A-KIND

Quick! Custom!
Decals
SPECIALTY WORK
EMAIL: solidesign@bizland.com
8005 ORE KNOB DR., FENTON, MI 48430 • (810) 629-4790



OCTOBER '08

Working for a railroad

Is it for you? Check out our insider's guide to find out

Trains that make the waiting worthwhile

CSX trains roll through Thurmond, WVa., in the heart of the rugged New River Gorge

How a photographer helped Norman Rockwell create a masterpiece

When a New York Central dining car and a little boy became a work of art

Ohio Central's private steam preserve

Rocky Mountain romp: Rio Grande steam today

Map of the Month:

1948 Presidential campaign trains

Plus: Amtrak's Northeast Corridor bridge replacement project

SUBSCRIBE TODAY! 1-800-533-6644

Order online at www.TrainsMag.com

Schedule of Events

Schedule of Events Rate: \$25 per issue (45 word maximum). Ads must be prepaid. Ads will contain the following information about the event: State, City, Sponsoring organization and name of event, meet, auction or show, Dates, Location, Times, Admission fee, Name and/or telephone number and/or email of person to contact for information.

Name, daytime telephone number and street address of the person providing the information is also required but need not be included in the ad. MR reserves the right to refuse listings that do not pertain to the subject of model railroading.

Unless otherwise requested ads will be published in the issue month that the event occurs in. Additional months are available at the \$25 per issue fee. Please specify issue date(s).

All copy will be set in standard 7-point type. *Model Railroader* is not responsible for spelling errors on an ad submitted that is not typed or emailed.

For email information, please direct your inquiries to: onlineclassads@kalmbach.com.

Send your schedule of events ad and prepayment (check, money order, or credit card) to:
Model Railroader—Classified Advertising
 PO Box 1612
 21027 Crossroads Circle
 Waukesha, WI 53187-1612
 Fax: 262-796-0126

Final Deadlines:

Jan. 08 issue closes Oct. 19, Feb. issue closes Nov. 16, Mar. issue closes Dec. 18, Apr. closes Jan. 18, May closes Feb. 15, June closes Mar. 20, July closes Apr. 17, Aug. closes May 16, Sept. closes June 19, Oct. closes July 18, Nov. closes Aug. 15, Dec. closes Sept. 19.

Note to Readers: Show dates, times and locations sometimes change. Please confirm the details before driving any distance.

Please go to www.mrmag.com and click on the Schedule of Events section to get more complete information on these and other coming events.

CA, WATSONVILLE: SANTA CRUZ COUNTY RAILROAD HISTORICAL SOCIETY SWAP MEET. County Fairgrounds Harvest Building, 2601 East Lake Ave. (Hwy. 152). October 4-5, 2008. Saturday 10:00am-5:00pm, Sunday 10:00am-4:00pm. Adults \$7.00, children 12/under free. Layout, free parking, food, RV hookups \$20.00. Contact Chuck Rudisill 831-247-3695, Screambird@msn.com

CO, MONTROSE: WESTERN COLORADO MODEL RAILROAD EXTRAVAGANZA Hosted by: San Juan Model Railroad & Historical Society. October 4th (10:00am-5:00pm) and 5th (10:00am-4:00pm) 2008. At the Montrose County Fair Grounds, 101 North 2nd Street. Contact: Paul 970-323-6469.

FL, DEERFIELD BEACH: DEERFIELD BEACH RAILROAD MUSEUM SWAP MEET. Amtrak Station, Hillsboro Blvd. Saturday, October 18, 2008. 9:00am-3:00pm. Displays, layouts, vendors and refreshments. Admission: Free. Information: Butch Tanis at 954-974-6798.

Classifieds

YOUR ESSENTIAL SOURCE FOR MODEL RAILROAD PRODUCTS AND SERVICES

Word Rate: per issue: 1 insertion — \$1.89 per word, 6 insertions — \$1.76 per word, 12 insertions — \$1.64 per word. \$25.00 MINIMUM per ad. To receive the discount you must order and prepay for all ads at one time. Count all initials, single numbers, groups of numbers (i.e. 4-6-0 or K-27), names, address number, street number, street name, city, state, zip, phone numbers each as one word. Example: John A. Jones, 2102 South Post St., Waukesha, WI 41202 would count as 10 words. Prepayment required.

All Copy: Set in standard 6 point type. First several words only set in bold face. If possible, ads should be sent typewritten and categorized to ensure accuracy.

CLOSING DATES: Jan 2008 issue closes Oct. 19, Feb. closes Nov. 16, Mar. closes Dec. 18, Apr. closes Jan. 18, May closes Feb. 15, June closes Mar. 20, July closes Apr. 17, Aug. closes May 16, Sept. closes June 19, Oct. closes July 18, Nov. closes Aug. 15, Dec. closes Sept. 19.

FOR MR'S PRIVATE RECORDS, PLEASE FURNISH: A TELEPHONE NUMBER AND, WHEN USING A P.O. BOX IN YOUR AD, A STREET ADDRESS. MR reserves the right to refuse listing.

Send your ads to:
Model Railroader — Classifieds
 21027 Crossroads Circle, P.O. Box 1612
 Waukesha, WI 53187-1612
 Toll-free (888) 558-1544 Ext. 815
 Fax: (262) 796-0126
 E-mail: onlineclassads@kalmbach.com

READERS NOTE: When advertisers say SSAE or SASE they require a stamped, self-addressed envelope with your inquiry. LSSAE is large envelope.

IN, SOUTH BEND: SJVRR TRAIN SHOW AND SALE South Bend Elks Lodge, 3535 E. McKinley Avenue. Our semi-annual train show and sale will be held Sunday, October, 19, 2008. 10:00am-3:00pm. \$4.00 individuals, \$8.00 family. For table information contact: David Korkhouse 574-272-6436 or www.sjvrr.com

MA, HINGHAM: SOUTH SHORE MODEL RAILWAY CLUB FALL OPEN HOUSE AND SHOW. Bare Cove Park, Building 51, 19 Fort Hill Street. October 25th & 26th, 2008. 9:00am-4:00pm. Dealers, operating layouts, white elephant table, rail movies, concessions. Free parking, handicap accessible. Jack Foley. www.ssmrc.org 781-740-2000 Fax: 781-740-8900.

MA, TAUNTON: OLD COLONY MODEL RAILROAD CLUB seventh annual model railroad show and sale. Taunton Holiday Inn, Myles Standish Industrial Park, Exit 9 from Route 495. September 28, 2008. 10:00am-3:30pm. Adults \$4, children under 12/scouts in uniform free. Contact Dennis Ingalls, 508-285-3963, e-mail: dingalls@comcast.net

MD, TIMONIUM: GREAT SCALE MODEL TRAIN PLUS HI-RAIL & COLLECTIBLE TRAIN SHOWS. Maryland State Fairgrounds, Oct 11-12, 2008, Saturday 9:00-4:00pm, Sunday 10:00-4:00pm. Adults \$9.00, family \$18.00, under 13 free. Free parking. 650+ vendors plus 25,000 sq ft of layouts; free movies. Howard Zane 410-730-1036, hzone1@comcast.net www.GSMTS.com

MI, KALAMAZOO: KALAMAZOO MODEL RAILROAD SOCIETY 29TH ANNUAL TRAIN SHOW AND SALE. County Fair Grounds, Hazel Grey Building, October 26, 2008. 10:00am-3:30pm. Admission- \$5.00 for adults. Children 12 and under are admitted free when accompanied by an adult. Contact: Jake Kuivenhoven, 269-375-1248

MN, ST. PAUL: TCMRM TOY TRAIN & MODEL RAILROAD SHOW AND SALE. Saturday, September 20th, 2008. MN State Fairgrounds Education Bldg., 9:00am-3:00pm. Admission \$5, FREE under 5. 200+ tables of scale models, toy trains, railroadiana. FREE museum admission w/Sale handstamp. Contact: www.tcmrm.org

NH, NO. HAVERHILL: AVRA THIRTY-FIRST ANNUAL FALL ALL SCALE MODEL RAILROAD SHOW. Haverhill Cooperative Middle School, 1.1 miles east of Rte. 10, on Rte. 116. October 25, 2008. 10:00am-3:00pm. Adults \$3.00, students/children free. Free parking, food service available. Contact Bill Driscoll, 603-747-3492. Come one, come all.

NJ, ASBURY PARK: GARDEN STATE CENTRAL MODEL RAILROAD CLUB 45TH ANNUAL OPEN HOUSE. Located at the Club Headquarters, 607 8th Avenue. October 17, 18, 19, 24, 25 & 26, 2008. Fridays 7:00pm-9:00pm, Saturdays and Sundays noon-4:00pm. Donations: Adults \$5.00, kids and seniors \$3.00. Info: www.gardenstatecentral.com

OH, BERE: DIV 4 MCR NMRA CARNIVAL '08, Cuyahoga County Fairgrounds, October 4th & 5th, 2008. Saturday 10:00am-5:00pm, Sunday 11:00am-4:00pm. Adults \$6.00. Two day pass \$9.00. Children under 16 free w/adult. Contact: Barb Mickley 216-598-0783.

For Sale-Z Scale

Z GAUGE AT COMPETITIVE PRICES. Modellbahn Ott Hobbes, 1145 East Philadelphia Ave., Gilbertsville, PA 19525. 610-367-5925. 800-MDL-BAHN.

For Sale-N Scale

ATLAS AND KATO out-of-production locomotives, older Micro-Trains cars. The Amherst Depot, 349 W. Dearborn St., Englewood FL 34223, weekdays 941-475-2020. www.amherst-depot.com

FREE MONTHLY MAIL BID CATALOG with hundreds of items-- Bid or Buy It Now at net price listed! Both new & "lightly Used" locomotives, rolling stock, as well as accessories! 30+ years in business, 1-800-701-7091, J & T Junction, PO Box 407, Huntingdon, PA 16652, jreevesandcompany@hotmail.com, www.jamesjreeves.com

JNJ TRAINS, N-SCALE DETAIL PARTS, body shells, special run cars. Send \$2.00 for product list to PO Box 683, Pleasantville, IA 50225. 515-848-5055. Fax 515-848-3311. www.jnjtrains@dw.com

Wanted-N Scale

ALWAYS BUYING N Scale Collections- Kato, Atlas, Micro-Trains, Custom Painted, Brass or Plastic. Quality Items Wanted- Over \$500,000 Available. Please call Dan Toll-Free at: 1-877-227-5557 or 352-680-1650. Mail your list to: Dan Glasure, PO Box 830175, Ocala, FL 34483-0175 or E-Mail: Dan@DanTrainDepot.com

BUYING N scale train collections, large or small. Call Tom 630-443-9137.

BUYING N AND HO SCALE- Super Quick Payment! (usually within 48 hours). If for some reason you don't like our offer, return our check and we'll return your material to you at our expense, along with a check to cover your shipping expense. Call before shipping. J & T Junction 1-800-701-7091.

\$5 PAID. Buying N scale. Small collections to store inventories. Larry, 1577 Foothill Dr., #10, Boulder City, NV 89005. 702-293-5949.

For Sale-HO Scale

1860'S TO 1950'S CIVILIANS, MINERS, lumberjacks, cowboys, wagons, farm animals, wild animals, structures, details, Civil War soldiers. Also N scale. Catalog \$3.00. Rustic Rails, DRR, Box 1976, Broomfield, CO 80038. www.musketminiatures.com

OH, MAUMEE: TOLEDO ALL GAUGE TRAIN SHOW Lucas County Fairgrounds, Recreation Center, 2901 Key St. September 21, 2008, 11:00am-4:00pm. Adults \$4.00, children under 12 free. Free parking. Five operation layouts, 300+ tables of sales items and information. Contact: 517-264-5705; E-mail: fotmrr@modelrailstuff.com

PA, ALLENTOWN: THE GREAT LEHIGH VALLEY TRAIN MEET. Merchants Square Mall, 1901 South 12th St. September 13-14, Sat: 10:00am-4:00pm, Sun: 10:00am-3:00pm. Over 10,000 feet of toy and model trains. All gauges, door prizes, DCC classes, more new vendors. Admission \$5.00, tables \$15.00. Info www.lehighvalleytrainmeet.com

PA, GLENSIDE: 5TH ANNUAL TOYS FOR TOTS TRAIN SHOW. North Penn VFW Post 676, 2519 Jenkintown Rd. Saturday, November 15, 2008, 9:00am-2:00pm. Adults \$3.00, kids under 12 free. Sponsored by The Marine Corps League #1023. Information- Mark Carver 215-264-2869. N scale train layout raffle \$5.00 per ticket.

PA, HAZLETON: ANTHRACITE MODEL RAILROAD SOCIETY OPEN HOUSE. Thanksgiving, November 26, 2008: 5:00pm-8:00pm, Fridays 6:00pm-8:00pm, Saturdays 12:00noon-8:00pm, November 27th to January 3 plus Sunday January 4 1:00pm-5:00pm. www.amrslub.org jps2102@verizon.net, chuckandmaryann@verizon.net, trainnut@ptd.net 570-401-5948 or 570-645-9133 or 570-459-5299

PA, TAMAQUA: PVTA MODEL RAILROAD SWAP MEET. Salvation Army Building, West Broad St., 1/2 block from Reading Station. October 14, 2008, 8:00am-3:00pm. Annual Heritage Day Train Show. Admission \$3.00, under 12 free. For info: trainnut@ptd.net 570-645-9133 or 570-952-7843. Dealers welcome.

RI, SMITHFIELD: GREATER RHODE ISLAND MODEL TRAIN SHOW Smithfield Elks Lodge, 326 Farnum Pike. October 18-19, 2008. 10:00am-3:00pm both days. Sponsor: Little Rhody Division/NMRA. Admission: Adults \$5.00, Seniors and Children \$3.00. Children under 6 are free. Contact: Don Itrace, E-mail: lrds@cox.net

TX, ROSENBERG: ANNUAL ROSENBERG RAILROAD FESTIVAL Museum site, 1921 F Street in downtown Rosenberg. October 11, 2008. 10:00am-5:00pm. Admission \$5.00. Great train watching. Railroadiana dealers. Info: LSSAE to Rosenberg Railroad Museum, PO Box 369, Rosenberg, TX 77471 opr 281-633-2846.

VA, VIRGINIA BEACH: TIDEWATER DIVISION'S ANNUAL TRAIN SHOW AND SALE Virginia Beach Convention Center, 1000 19th Street, September 20-21, 2008. 10:00am-4:00pm both days Admission: Adults \$7.00/children under 12 free w/adult. Operating trains, Lego trains. Info 757-426-2811. e-mail nawmeyer@msn.com www.groups.hamptonroads.com/TDWDME/ for printable flyer; www.virginiabeachconventioncenter.com for map.

WA, VANCOUVER: 36TH ANNUAL GREAT TRAIN SWAP MEET Hudson's Bay High School Commons, 1206 E. Reserve St. Southwest Washington Model Railroaders. Saturday, October 4, 2008. 9:30am-3:30pm. Admission \$4.00 for adults and \$2.00 for students. Under 6 are free. Contact Richard Renihan at 360-892-3410 or rrenihan@msn.com

ABC'S OF BRASS Call Gunning's Hobbies. In business 60 years. Great selection. Always changing. www.gunnings.com 415-454-3087

ATHEARN PARTS. old prices. Caboose, Snowplow and Crane parts. Most engine parts and shells. Most engine frames on sale. (\$3.00 each). Call RJ Rennie, 440-234-7186. 197 Best St., Berea, OH 44017.

ATLAS, KATO AND STEWART out-of-production locomotives. The Amherst Depot, 349 W. Dearborn St., Englewood, FL 34223. www.amherst-depot.com Weekdays 941-475-2020.

BRASS ENGINE RE-GEARING, RE-MOTING. DCC Soundtraxx, DPM installations, repairs. 24 years experience. Literature \$1.00. Huntington Electronics, 59 Sorghum Road, Shelton, CT 06484 203-929-0212.

BRONZE. Figures, animals, statues, garden details. HO, N, Z, 1/76 & 1/72 scale. Literature \$1.50 money order. D.E.A. Haynes Metal Castings, 6 Genthorn Avenue, Etobicoke, ON, M9W 2S7, Canada.

CANADIAN PROTO 2000/ 1000. Phone 905-338-1608 or visit www.modeltrains.com to view our huge selection of Life-Like Proto Canadian products. Canadian Model Trains. sales@modeltrains.com

CUMBERLAND VALLEY RR 3 Rail MTH double sheathed boxcar in two numbers and Athearn HO view at www.cvmrr.com SSAFE, 440 Nelson St., Chambersburg, PA 17201.

EXCEPTIONAL HO BRASS: CY MoPac 12 car '50s Colorado Eagle; RwyCI NYC 8 car '48 20th Century Ltd; RwyC1 Milwaukee '48 9 car Pioneer Ltd; more. Bob's Trains, Grand Rapids, MI 616-942-0446/616-560-2268; bkdevries@comcast.net

FREE MONTHLY MAIL BID CATALOG with hundreds of items-- Bid or Buy It Now at net price listed! Both new & "lightly Used" locomotives, rolling stock, as well as accessories! 30+ years in business, 1-800-701-7091, J & T Junction, PO Box 407, Huntingdon, PA 16652, jreevesandcompany@hotmail.com, www.jamesjreeves.com

HAG, MÄRKLIN, TRIX, FLEISCHMANN and other European brands at very competitive prices. World class repair facility. E-Shopping fast, convenient, secure, reliable! Please visit us on the web at www.helmuthobbies.com Helmut Hobby Specialties, 83 Brookshire Dr., Warrenton, VA 20186. 540-349-4910.

HUNDREDS OF ITEMS, including over 150 pieces of brass, mostly OMI, also InterMountain, Proto, structures, switches, rolling stock, etc. Personal collection. Most are NIB. 254-265-0275 or E-mail: rschmidt@hotmail.com for list and prices.

MÄRKLIN AT COMPETITIVE PRICES. Modellbahn Ott Hobbes, 1145 East Philadelphia Ave., Gilbertsville, PA 19525. 610-367-5925. 800-MDL-BAHN.

OVERLAND BRASS check the prices of one of the world's biggest dealers at www.modeltrains.com or fax 905-338-8871.

WWW.PREOWNEDTRAINS.COM for a large selection of used and preowned trains. We also buy collections.

Wanted-HO Scale

! #1 A+ ESTATE BUYER OF ALL TRAIN ESTATES- Brass Pieces & Collections wants your material. Including all types of Brass, old trains, kits, plastic, diecast, buildings, etc. - we buy it all. Buildings and estates included. We seek better items for personal collections. Call us before you sell for our offer as we pay the highest prices. Call Don Black toll free 1-866-462-7277. Don Black, 119 Bernhurst Road, New Bern, NC 28560. E-mail don@donblack.com

A ACTIVE BUYER, WE PURCHASE ENTIRE COLLECTIONS all scales - we buy & sell it all. Brass, plastic, diecast, books, etc. The Caboose a trusted name in the Model Railroad industry for 39 years. Phone: 203-879-9797. email: support@thecaboose.com, web: www.thecaboose.com

A FATHER & SON TEAM are looking for large high-quality Brass & Plastic Collections. We buy your entire collection, not just the cream. Over \$500,000 Available. Many items bought are used for personal layout. Call Dan Toll-free at: 1-877-227-5557 or 352-680-1650 or Mail a List to: Dan Gla-sure, PO Box 830175 Ocala, FL 34483-0175 or E-Mail: Dan@DansTrainDepot.com

ATHEARN 92673, 92674, 92684, 92693, 92694 flatcars; Overland 6664, 1 SD40-2B cabless; PSC 15602 100-ton log car, boysenhe@yahoo.se

BRASS PASSENGER CARS; FSM kits, FOS kits, LIRR Brass wanted. Please call Bob 212-874-6569 or e-mail grandt7@yahoo.com

BUYING HO train collections, large or small. Also brass. Call Tom 630-443-9137.

BUYING N AND HO SCALE- Super Quick Payment! (usually within 48 hours). If for some reason you don't like our offer, return our check and we'll return your material to you at our expense, along with a check to cover your shipping expense. Call before shipping. J & T Junction 1-800-701-7091.

MÄRKLIN COLLECTIONS PURCHASED. Bill Ott, 2469 Old Rt. 100, Barto, PA 19504. 800-635-2246.

MILW. HIAWATHA 4-4-2 loco #1-#4 and beavertail observation. E-mail: wblslo@charter.net

WABASH VALLEY HOMETOWN COMPANY HOUSES orient fire, ice house. Bruce 925-672-4925. milwroad@sbcglobal.net

WANTED: HON3, SN3, ON3 LOCOMOTIVES AND CARS, single pcs. or collections. Bruce Kinkner 602-943-6315.

For Sale-O Scale

ANY O-SCALE STRUCTURE YOU LIKE scratchbuilt, detailed, lighted, weathered. Kits built. Call Reed 973-472-7456.

O SCALE IS ALIVE AND GROWING! Read O Scale Trains magazine. Six issues per year for \$35. Visit www.oscalemag.com or call 610-363-7117.

Wanted-O Scale

ALWAYS BUYING: Chooch CP Fowler boxcars, Chooch & SS Ltd WWII Emergency boxcars. PSC 50' wooden reefers PFE or Undec. GS gons. Pac Ltd 53 flats, ARA boxcars. Lobaugh boxcars, early Athearn RI boxcars. Lobaugh 50' reefer, CBQ waycars rtr only. Reynolds (Athearn) 50' PRR and NKP boxcars. PSC undec #15453 boxcar. Lionel #2855 black Sunoco tank. Hallmark PRR comp flat/gon. What have you? No calls. Jim Seacrest, PO Box 6397, Lincoln, NE 68506-0397.

Wanted-O Tinplate

BUYING O and Standard gauge collections. Lionel, Flyer and all others. Call Tom 630-443-9137

LIONEL, FLYER, IVES for collector. Please contact Stephen Slauson, 2426 Otis Drive, Alameda, CA 94501. 510-523-8563.

For Sale - Miscellaneous

269 ISSUES MAINLINE MODELER including charter issue. SASE for list. Richard Howard, 1905 Bloomington Road, East Peoria, Illinois 61611.

BUSINESS FOR SALE. Rustic Rails, manufacturer of HO and N scale details and structures. Owner retiring. View at www.muketminiatures.com Contact us at: 303-439-9336

TIRED OF PAYING \$1.29 FOR 6 SCREWS? We supply hobbyists sensible bulk quantities of small threaded fasteners at reasonable prices. Call toll-free 1-800-892-6917, fax, write or email for our free catalog. Micro Fasteners 24 Cokesbury Road, #2, Lebanon NJ 08833 fax 908-788-2607 email info@microfasteners.com or order online at <http://microfasteners.com>

Wanted - Miscellaneous

MODEL AUTOMOBILE AND TRUCK KITS WANTED- un-built or built, any size collection. Fred Sterns, 48 Standish, Buffalo, NY 14216. 716-838-6797. email: fsterns@aol.com

Custom Painting & Building

ARTWORKS Kit assembly service; custom model design/construction; custom painting/ decorating. Inquire @ art@artspools.com, 972-562-6636

BUY, SELL, TRADE, REPAIR, MODIFICATION and upgrades. All scales. Richard's Disc Drives, Inc., Richard R. Johnson, 170 South Street, LaVale, WI 53941. 608-985-7448. mechanic@mwt.net Ebay ID: Mechanic_2

CUSTOM BUILDER, kits, scratchbuilt from photos, plans. All scales. See my kits at www.Bill-Bradford.com 239-542-0087.

CUSTOM BUILDING & PAINTING, kit building, kit-bashing & scratchbuilding. Locomotives, rolling stock, structures & more. 12 Penny Lane, Newark, DE 19702, 302-366-7506. www.tmbcustommodels.com

CUSTOM LAYOUT BUILDING & LAYOUT DESIGN. Superb craftsmanship. Breathtaking scenery. Bulletproof reliability. Don't go another year without a layout. The Shelf Layouts Company. www.shelflayouts.com 301-404-8164.

CUSTOM PAINTING Steam, Electric, & Diesel. Plastic or Brass. All scales. Your equipment or ours. Worldwide fast service. All work done in our shop by professionals. We also do shortlines, regionals and any railroad you may dream up. Detailing available. Trains Emporium, PO Box 70158, Reno, NV 89570. 800-228-7163. E-mail train@alpine.net www.trainemporium.com

LAYOUT FINISHING SERVICES Specialist in realistic scenery and structure detailing. Quality craftsmanship. Serving the Northeast. John Schaub - RMSS. 516-946-6880. joh@railroadmodelsenery.com

P&N CUSTOM HOBBIES- Specializing in custom paintwork, decoder and sound decoder installations, remotoring and re-gearing. Competitive pricing. Call us at 724-658-4018.

Web Site Directory

Web Site Directory advertising is open to anyone who wants to promote their railroad-related Web site. Ads will be set in a standardized format. Prepayment is required.

Word Rate per issue: 3 insertions - \$2.17 per word, 6 insertions - \$2.05 per word, 12 insertions - \$1.82 per word. \$25 minimum per issue. 35 word maximum. Call (888) 558-1544 ext. 815. E-mail: onlineclassads@kalmbach.com. *Model Railroad*er Classifieds, PO Box 1612, Waukesha, WI 53187-1612.

Arizona Rock & Mineral Co.

www.rscenery.com

18 years of genuine stone ballast and scenery products in popular scale sizes. 928-636-9275

Besemer Hobbies

www.besemerhobby.com

Special runs! Bowser, Stewart, Branchline, Detail Parts, DCC and more! Huge selection all scales! Secure Checkout! PayPal accepted! International shipping via USPS Priority Mail.

Big Boy Trains & Hobbies

www.BigBoyTrainsandHobbies.com

HON3, N, Nn3, Z, Train Videos & Train Games.

Black Bear Construction Company

www.blackbearcc.com

Timber trestle and bridge jigs. Kits. NBW's. Strip basswood. 512-467-8400.

Brass Guide, Inc.

www.brassguide.com

The Premier Brass Train Resource. Home of "The Brass Train Guide Book" and "Brass Model Trains - Price and Data Guide." Order yours today! 352-288-8722

Brass Trains, Inc.

www.brasstrains.com

First Class Customer Service - Site Updated Continuously - Huge Selection - Thousands of Photos - New & Out of Production Brass Models Available - We Purchase Collections of Any Size - 352-288-2222

Dan's Train Depot

www.danstraindepot.com

Online Auctions for Unique and Collectable Brass & Plastic Model Trains - 100's of Items Every Week

DCC Roundhouse

www.dccroundhouse.com

DCC sales at discount prices. Decoder and sound installation service. 717-534-9818

Decoder Installation Services

www.dccplus.com

Your source for DCC, Sound, and AirWire 900 Products and installations.

DRail Modelspoor Software

www.AnyRail.com

AnyRail makes model railroad design so easy, it's fun!

Dunham Studios Custom Layouts

www.dunhamstudios.com

See What Real Museum Quality Looks Like!

Euro Rail Hobbies & More

www.EuroRailHobbies.com

European model trains from Märklin, Trix, Roco, Brawa, Freischmann & more. Detailed on-line catalog with secure ordering. Great selection & prices.

Evan Designs

www.ModelTrainSoftware.com

Print buildings and realistic details for your layout w/our software. All scales!

Fifer Hobby Supply

www.fiferhobby.com

Your complete model railroad internet hobby shop.

Firewood Creative Ltd.

www.firewoodcreative.com

New structures for your layout...

Hundred Year Bridge Co.

www.100ybc.com

Metal bridges for all gauge trains. 717-887-8980

James Publications

www.WildWestStructures.com

1880's Ghost Town- Western Structures you can build from real wood. HO & N only.

Model Memories, LLC

www.modelmemories.com

Manufactures HO fine-scale details in etched brass: signals, catenary, scenery details and accessories. All Made in the USA.

North Star Hobbies & Collectibles

www.northstar-hobbies.com

HO, N, and Narrow gauge. Custom work and repairs. Huge selection of scratch building and detail parts and our great wall of paint. 24 brands. 905-566-4758. sales@northstar-hobbies.com

P & D Hobby Shop

www.pdhobbyshop.com

O Scale, 2 Rail, 3 Rail, N, Z.

Papa's Trains

www.papatrains.com

Trains and accessories - all scales.

railroadbooks.biz

www.railroadbooks.biz

History, technology, railroads, transportation. 1,400+ titles. Free domestic shipping over \$50.00. PO Box 4, Bloomington, IN 47402. chuck@railroadbooks.biz 800-554-7463.

The Proto:87 Stores

www.Proto87.com

Awesome, new, HO technologies for the 21st Century! Breathtakingly realistic: Track, switches, wheels, trucks, couplers and even smooth-riding suspension.

TrackMyTrains

www.TrackMyTrains.com

The ultimate, subscription-based inventory system designed especially for model railroading enthusiasts and collectors. Try it for free today and stay organized.

Train Central Corp.

www.waynestrains.biz

New & Used, N, HO, O Trains & Accessories. Railroad Books.

Train Time Hobby

www.traintimehobby.com

Z, N, HO, O and G. 402-502-6993.

Western Scale Models

www.westernscalemodels.com

Superior craftsman kits and highly-detailed accessories to create innovative models.

Youngwood Model RR Supply

www.ywdmodeltrains.com

Get on track with Youngwood. See our Buyers Club pricing for great savings. All scales.

Now two ways to locate your
local hobby shop:
Model Railroader magazine and
www.HobbyRetailer.com

DIRECTORY OF LEADING MODEL RETAILERS

Say you saw their directory ad in MR

Retail Directory spaces are sold on a year's basis at \$616 per year (payable in advance) or at \$57 per month (billed to established accounts for one year minimum); also for six months at \$332 (payable in advance). Ads will be set in standard listing typography. All insertions must be consecutive and may be invoiced if you have credit established with us. No mention of mail order business permitted. CLOSING DATES are listed in the "Schedule of Events" section. For more information call 1-888-558-1544, ext. 815.

ALABAMA • Jacksonville
Northeast Alabama's Largest!
All Scales - All Major Brands
Mon-Fri 9-5; Sat 9-3
E-mail: modelcitymodels@nti.net
www.modelcitymodels.com
MODEL CITY MODELS
2200 Pelham Rd. South 256-435-0095

ALABAMA • Pelham (Birmingham)
Full service hobby shop.
N, HO scales.
Digitrax & Soundtraxx dealer.
Open Mon - Fri 10-6, Sat 8-5
OAK MOUNTAIN HOBBIES
2659 Pelham Parkway 205-685-8980

ARIZONA • Mesa
HO and O. Largest selection of Bldg. & Structure Kits, Landscape Materials, Details & Accessories; Scratch-Building Supplies. Discount Pricing, Mon-Fri 10-5:00, Sat 10-4. www.MesaModels.net
MESA MODELS
6032 E. McKellips Road 480-357-8800

ARIZONA • Mesa
The largest selection of RR supplies in Arizona since 1974. Z, N, HO, O, G, Lionel, Märklin, LGB, Thomas. Large selection of RR books. www.roystainworld.com
ROY'S TRAIN WORLD
1033 S. Country Club Dr. 480-833-4353

ARIZONA • Phoenix
Narrow gauge almost exclusively.
On3 - Sn3 - HOOn3 - On30.
Kits, parts, brass & books.
Mon-Fri 8-12, 1-5, Sat 8-12.
CORONADO SCALE MODELS
1544 E. Cypress St. 602-254-9656

ARIZONA • Phoenix
HO and N scale model trains and accessories. Custom painting and printing.
Tue-Sat 10am-6pm.
frtyard@flash.net
www.thefreightyard.com
THE FREIGHT YARD
2734 W. Bell Rd., Ste. 1306 602-942-1862

ARIZONA • Scottsdale
A large selection of RR supplies:
Z, N, HO, O, G, Lionel, LGB,
R/C books & children's train toys.
Located in McCormick-Stillman RR Park.
www.roystainworld.com
ROY'S TRAIN WORLD, At The Park
7301 E Indian Bend Rd. 480-367-9007

CALIFORNIA • Anaheim
Lionel, Flyer, G, HO, N, Märklin, Playmobil.
New, used, buy, sell, repairs, trade.
Hours: Mon-Fri 10-7, Sat 10-6, Sun 12-6.
www.toytrainshop.com
TOY TRAIN SHOP
1829 W. Lincoln Avenue 714-991-1040

CALIFORNIA • Anaheim Hills
100% model railroading - Hills scales and gauges. Operating layouts.
www.Milepost38ModelTrains.com
MILEPOST 38 MODEL TRAINS, INC.
5757 B East LaPalma Ave. 714-970-3751

CALIFORNIA • Atascadero
HO and N scale specialists. Midway LA and SF - U.S. 101. Easy access. Curbarill exit.
Locos-cars-bldgs - details, details, details.
Open Tues.-Fri 10-6, Sat 10-5
CENTRAL COAST TRAINS
7600 El Camino Real # 3 805-466-1391

CALIFORNIA • Burbank
Large selection of N Scale Trains
All brands plus special orders
Visit us online or in person.
www.houseofhobbies.com
Secure online ordering
BURBANK'S HOUSE OF HOBBIES
911 S. Victory Blvd. 818-848-3674

CALIFORNIA • Burbank
All scales G through N, collectibles old & new.
Authorized LGB, Lionel, MTH & Märklin dealer. One of the most complete train stores in So Calif. UPS worldwide shipper.
Visit our website at www.trainshack.com
THE TRAIN SHACK
1030 N. Hollywood Way 800-572-9929

CALIFORNIA • Burlingame
Near SF airport. 4 blocks South of Millbrae BART & Caltrain. Ingold Rd. side of bldg. Old fashioned friendly service. Digitrax & Lenz dealer. Hrs: W, F 12-8; Th & Sat 12-5; Sun 12-3. www.tomtracksidetrains.com
TOM'S TRACKSIDE TRAINS
1675 Rollins Rd., Suite B1 650-692-9724

CALIFORNIA • Clovis (Fresno)
Z-G Scale Trains -- Vintage Trains.
Buy - Sell - Trade - Repair.
Lionel Dealer. Railroad Collectibles.
Mon - Sat 10:00-6:00
www.roystains.com
ROY'S TRAINS & THINGS
352 Pollasky Ave. 559-325-0102

CALIFORNIA • Concord
Largest selection in the East Bay. 93 foot HO layout. Buy - sell - trade - consign - repairs - detail parts in all scales. Lionel. Discount prices & friendly service.
Website: www.just-trains.com
JUST TRAINS
5650-H Imhoff Dr. 925-685-6566

CALIFORNIA • Costa Mesa
Lionel, AF, LGB, HO, N, & Z Gauge.
New, used, R/C, collectibles.
Buy, sell, trade & repair.
Tue-Fri 12-7, Sat 9-5, Sun 11-3.
THE TRAIN CROSSING
1089-C Baker Street 714-549-1596

CALIFORNIA • Culver City
A friendly model railroad store since 1946. 3 miles north of L.A.X.
All scale, all sizes including Märklin, Fleischmann and Digitrax too.
info@alliedmodeltrains.com
ALLIED MODEL TRAINS
4371 S. Sepulveda Blvd. 310-313-9353

CALIFORNIA • Fresno
Fresno's oldest model railroad hobby shop.
All scales. Open Mon, Thurs, Fri & Sat 10-5; Sun noon-4:00. Closed Tues. & Wed.
TOM'S TRAINS
1476 N. Van Ness 559-266-3192

CALIFORNIA • Gilroy
HO and N Scale Trains. Model aircraft, cars, ships, armor, figures. Diecast, R/C airplanes, books, paint, togs.
Open Tue.-Fri. 12:30-6:30; Sat. 10:00-4:00.
FLYING FORTRESS HOBBIES
7367 Monterey St., Ste 101 408-842-0450

CALIFORNIA • Hollister
Model planes, car, ships and figures. Model train scales: Z, N, HO, O & G. Paints, tools, R/C and parts, including service. Craft supplies, kits and educational supplies, kits and products. Tu-Sat 11-5:30; Sun 12-4.
B.C.T. HOBBY & CRAFTS
201-C McCray St. 831-635-0537

CALIFORNIA • La Mirada
We now carry Z, N, HO, S, Q and G. Lionel, LGB, S-Helper and MTH.
Mon-Sat 10-6. Closed Sunday.
R HOBBIES
14269 Imperial Hwy. 562-777-9492

CALIFORNIA • Lakewood
Trains & more trains.
HO, N, Lionel, large scale.
Great prices.
Mon-Fri 10-8, Sat 10-6, Sun 11-6.
www.hobbywarehouseinc.com
HOBBY WAREHOUSE
4105 East South Street 562-531-1413

CALIFORNIA • Napa
Napa Valley's premiere hobby shop.
Trains, plastic models, rockets, slot cars, Thomas the Tank Engine & more.
Tue-Sat 10-6, Sun 12-5, closed Mon.
Facing Solsco Avenue.
THE LOOSE CABOOSE
820A 3rd Street 707-258-1222

CALIFORNIA • North Hollywood
HO, N, Lionel, LGB, MTH, Märklin.
L.A.'s oldest train store, discount prices.
Coffee pot's on. Open 7 days.
roundhousetrains@gmail.com
THE ROUNDHOUSE
12804 Victory Blvd. 818-769-0403

CALIFORNIA • Novato
All popular train scales, scenery, layouts. Full service hobby shop. 20 min. north of San Francisco. R/C and more. Mon-Fri 9-6, Sat-Sun 10-5. www.dollhouses-trains-more.com
DOLLHOUSES, TRAINS & MORE
300 Entrada Dr. 415-883-0388

CALIFORNIA • Oakland
Auth. Lionel, MTH, Märklin, S-Helper, Micro-Trains, Bowser, Con-Cor dealer. New & vintage, toy trains, narrow gauge, HO, N, Z. Modeling supplies, books & magazines. Near Jack London Square. www.tinplatein.com
SCALE RAIL / TIN PLATE JUNCTION
681 4th St. 510-444-4780

CALIFORNIA • Pasadena
Model rail specialists since 1951.
LGB, Lionel, O, S, On3, HO, HOOn3, N, Z. Complete stock of brass imports, new & used. Books, tools, structures, detail parts.
Open 7 days. www.thewhistlestop.com
THE ORIGINAL WHISTLE STOP INC
2490 E. Colorado Blvd. 626-796-7791

CALIFORNIA • Redwood City
Sales & service all gauges & standard brands
Auth. Lionel, American Flyer, Märklin & Trix dealer, American and European prototypes SS #097. We buy trains.
www.loco-boose.com Call for hours.
LOCO-BOOSE ELECTRIC TRAIN SHOP
260-D Main St. 650-368-1254

CALIFORNIA • Roseville (Sacramento)
Exclusively model trains since 1989.
Atheam, Kato, MDC, Lionel, Atlas, LGB, Märklin, Brass Imports, books, detail parts.
Everyday low prices. Open 7 days.
www.rhobbies.com
RAILROAD HOBBIES
119 Vernon St. 916-782-6067

CALIFORNIA • Sacramento
6,000 Sq Ft. model train store.
Consignments all scales.
Large selection of HO & N scale supplies.
Authorized dealer Lionel, MTH, LGB.
Open 7 days.
BRUCE'S TRAIN SHOP
2752 Marconi Ave. 916-485-5288

CALIFORNIA • San Anselmo
Large selection of brass locomotives.
O, HO, N, Z, Märklin, Lionel.
Supplies & repairs. Custom painting.
20 minutes north of San Francisco.
Open 7 days a week. www.gunnings.com
GUNNING'S HOBBIES
538 San Anselmo Ave. 415-454-3087

CALIFORNIA • San Diego
Model Trains Exclusively Since 1949
HO & N scale our specialty. Best selection of Railroad books, Videos, kits and scratch building supplies in San Diego. Tu-Th 10-6, Fri 10-8, Sat 10-5. Closed Sun & Mon.
THE WHISTLE STOP
3834 Fourth Avenue 619-295-7340

CALIFORNIA • San Diego (La Mesa)
Exclusively trains. Craft kits, detail parts, scratch supplies, books.
Ride the trolley to Reed's.
Open Monday through Saturday 10:00-6:00.
www.reeds-hobbies.com
REED'S HOBBY SHOP
8039 La Mesa Blvd. 619-464-1672

CALIFORNIA • San Diego (Mira Mesa)
San Diego's LARGEST Hobby Shop
open 7 days N, HO, O Lionel & MTH
Special orders and preorder discounts
Huge operating layout with trains & slot cars
WWW.HOBBY101.COM
HOBBY CENTRAL
9705 Carroll Centre Rd. 858-693-0373

CALIFORNIA • San Dimas
Exclusively model RRing since 1974.
Huge inventory N thru G Scales
Worldwide Shipping www.trainstop.com
Tue - Sat 10am - 5pm Fax 909-599-1566.
THE TRAIN STOP
211 W. Bonita Ave. 909-599-2602

CALIFORNIA • San Francisco
Large collection Lionel & Am. Flyer. Auth. service. Buy, sell & trade. N, HO, Märklin & LGB. Mon-Sat 10-6, Sun 12-5. Located south of Ghirardelli Sq., heart of S.F.
CHAN'S TRAINS AND KITS
2450 Van Ness @ Union St. 415-885-2899

CALIFORNIA • San Francisco
TRY US
www.franciscanhobbies.com
FRANCISCAN HOBBIES
1920A Ocean Avenue 415-584-3919

CALIFORNIA • San Mateo
LGB, Lionel, Märklin, HO, N scales.
Domestic and imported trains.
Mon-Sat 9:30-6, Sun 11-5.
TALBOT'S HOBBIES
445 South "B" Street 650-342-0126

CALIFORNIA • Santa Clara
100% trains. Buy, sell, trade.
9:30am - 8pm Tues. - Sat.
Closed Sun. & Mon.
Vern Cole - Dennis Cole.
THE TRAIN SHOP
1829 Pruneridge Ave. 408-296-1050

CALIFORNIA • Sonoma
100% trains G to Z scale & narrow gauge.
All brands. Repairs.
Sat 10am-6pm.
For other times, please call.
N & E HOLMES SIERRA RAIL SHOP
19233 Rockridge Way 209-532-6381

CALIFORNIA • Tehachapi
Visit us and the Tehachapi Loop
N thru G - Also Trians with History
Mon thru Sat 9:30-5:00 and Sun 11:00-5:00
www.trainset.biz or trainset@sbccglobal.net
TRAINS, ETC.
114 W. Tehachapi Blvd. 661-822-7777

CALIFORNIA • Thousand Oaks
Massive inventory. All gauges. Full service hobby shop. Very competitive discount prices. If you can't find it, call us. All credit cards accepted. Open M-Th 10-8, Fri 10-9, Sat 10-6, Sun 11-5. www.martyshobbies.com
MARTY'S HOBBIES
1728 Moorpark Rd. 805-497-3664/0346

CALIFORNIA • Ventura
N, HO, O, O27, Am Flyer & G Scale, Track, parts & accessories. Ventura's best selection of trains and toys, new and used.
Open M-F 10-6, Sat 10-5, Sun 11-3
www.friendsjunction.com
TOYS N' TRAINS
1974 E. Main St. 805-643-8697

CALIFORNIA • Ventura
DCC/Sound Installation. Largest selection of Z gauge trains & access. between LA & SF! Complete lines in HO, N, O, O27 & On30. Track, structures, scenery & supplies.
Open 7 days. www.venturahobbies.com
VENTURA HOBBIES
2950 Johnson Dr. #128 805-658-8138

CALIFORNIA • Westminster (Orange Co.)
World Famous Since 1977
www.arniestrains.com
ARNIE'S TRAINS
6452 Industry Way 714-893-1015

CALIFORNIA • Yuba City
A full service model train store. Large inventory, HO, N, O & O27 Timpale. Books, videos, collector & gift items. Repair service. We buy old toy trains.
www.westerndepot.com
THE WESTERN DEPOT
1650 Sierra Ave. #203 530-673-6776

COLORADO • Colorado Springs
New and used brass. Southern Colorado's oldest, largest, and most complete train store.
All gauges. Authorized Lionel and MTH sales and service.
www.CustomRailwaySupply.com
CUSTOM RAILWAY SUPPLY
1025 Garden of the Gods Rd. #D 719-634-4616

COLORADO • Colorado Springs
Full service store for all skill levels.
100% trains. Z, N, HO, O, G scales.
LGB, Märklin, MTH. Authorized Dealer.
Lionel Repair. www.sbirdtrainmart.com
Open Mon-Sat 10-7:30, Sun 12-5.
DISCOUNT TRAINS
3311 N. Academy Blvd. 719-574-2080

COLORADO • Denver
Since 1938! Our store is over 18,000 sq. ft. Approx. 1,800 brass models & 1,000 book titles! All scales & gauges. Open daily. See all this & more in our on-line catalog.
http://www.caboosehobbies.com
CABOOSE HOBBIES, INC.
500 S. Broadway 303-777-6766

COLORADO • Westminster (Denver)
Featuring "The Wall of Trains." Lionel-MTH-LGB, Rocky Mts. largest selection of trains. All brands/scales. Diecast- models & hobbies. Open 7 days. Auth. Lionel Service Center.
www.MizellTrains.com MizellTrains@cs.com
MIZELL TRAINS, INC.
3051 W. 74th Ave. 303-429-4811

CONNECTICUT • Branford
Trains, planes, boats, cars.
Closed Sun. & Mon.
Open Tue, Wed, Thu 10-5:30.
Fri 10-9, Sat 10-5.
(West Main)
BRANFORD HOBBIES
609 W. Main St. (rear) 203-488-9865

CONNECTICUT • Canaan
Mainly model railroading.
All scales.
e-mail: berkshirehills.hobby@snet.net
Tues-Fri 11-6, Sat 9-5
BERKSHIRE HILLS HOBBY SUPPLY
93 Main St. (Rt. 44) 860-824-0527

CONNECTICUT • Cos Cob
HO, N, Lionel. Lionel authorized dealer & repair. Plastic, wood kits, rockets, tools, structural & diorama supplies.
Special orders welcome.
ANN'S HOBBY CENTER
405 E. Putnam Avenue 203-869-0969

CONNECTICUT • Danbury
Totally trains! Lionel, AF, MTH LGB, Aristocraft, HO & N. Vintage trains bought, sold, & repaired. Open Tues-Fri 11-6, Sat 10-5, Sun 11-4. Closed Mon & Holidays.
April - Sept closed Mon & Tues.
RAILWORKS, INC.
5 Padanaram Rd. 203-797-8386

CONNECTICUT • Manchester
All scales Z, N, HO, O, O-27, G, #1, MTH, Lionel, Märklin, LGB, Walther's, Aristocraft, Trix, etc. Digital Sales-Install. Large operating layouts. www.nohobby.com
Mon-Wed 10-6, Thur-Fri 10-8, Sat-Sun 10-6.
Time Machine Hobby - New England Hobby Supply
71 Hilliard St. 860-646-0610/Fax-645-0504

CONNECTICUT • Wolcott
Exclusively brass models. One of the largest selections in the country. All scales. Buy, sell, trade - entire collections bought.
Mon-Fri 8-5
www.thecaboose.com
THE CABOOSE
5 Mohawk Drive 203-879-9797

CONNECTICUT • Wolcott

Athearn, Con-Cor, Atlas, Kadee, all scales.
Hard-to-find items. Diecast.
Tues., Wed., Fri. 10 - 6, Thurs. 10 - 8,
Sat. 9 - 5, Sun. 1 - 5, Closed Mon.
www.hobbygallery.com

THE HOBBY GALLERY
1810 Meriden Road 203-879-2316

DELAWARE • Ocean View

No sales tax at the Delaware seashore.
Lionel new & used...also K-line, LGB, MTH.
We buy used trains. Expert repairs.
See our running displays - gauges N to G.
Open Tues-Sat 11-5:00, Closed Sun & Mon.

SEASIDE HOBBIES
15 Daisey Ave. 302-539-1601

FLORIDA • Clearwater

Under New Ownership.
New and Ever Expanding Inventory.
Mon.-Thurs. 10-6; Fri. 10-7; Sat. 10-4:30.
Closed on Sunday.
www.trainstreatures.com

TRAINS AND TREASURES
1710 N. Hercules Ave. #104/105A 727-298-0350

FLORIDA • Ft. Lauderdale (Plantation)

Brass, plastics, railroad items of all types.
G, Z, N, HO, HOn3, On2, On3, On30,
Lionel, MTH. Kits & supplies.
Since 1972, Mon-Sat 10-8, Sun 11-5.
www.warriorcustomhobbies.com

WARRICK CUSTOM HOBBIES
7676 Peters Road 954-370-0708

FLORIDA • Lantana (West Palm area)

Full line Hobby Shop specializing in Trains.
M-Sat 9:30-6:30, Sun 11:00-4:00.
www.depotohobbyshop.com

THE DEPOT HOBBY SHOP
518 W. Lantana Rd. 561-585-1982

FLORIDA • Miami

Shop "Warehouse Style" for Z to G.
MTH, Lionel, Kato, LGB, Broadway Ltd.,
Atlas, Pecco, Walthers at discount prices.
Open Mon 11-5, Tue-Fri 10-6, Sat 9-6,
Sun closed Feb-Oct, Nov-Jan 10-3.

READY TO ROLL
831 N.W. 143rd Street 305-688-8868

FLORIDA • Mount Dora (Orlando area)

Specializing in HO. All major brands at
attractive prices. Visit our lakeside shopping
and dining village in downtown Mount Dora.
Daily 10-5, Sun 12-4.
allaboard.south@earthlink.net

ALL ABOARD SOUTH TRAIN SHOP
107 E. 4th Ave. 352-250-1252

FLORIDA • Ocala

HO, N, Trains & accessories.
Visa, MC, A/X, Discover.
Open Mon-Fri 10-5:30, Sat 9-4, Sun 12-4

ROB'S HOBBY WORLD
8602 SW State Rd. 200 352-854-2799

FLORIDA • Ocala

A complete line of model railroading. Open
6 days a week. Check our prices. All major
credit cards accepted. Fax 352-369-5153
www.trainsofocala.com
trains1@atlantic.net

TRAINS OF OCALA
1729 NE 8th Road 352-369-5152

FLORIDA • Orlando

One of Florida's largest model train & hobby
shops. All scales.
Authorized Lionel & MTH service station.
Mon-Thu 9-7:30, Fri 9-9, Sat 9-6.
20 min. from Disney.

COLONIAL PHOTO & HOBBY, INC.
634 North Mills 407-841-1485

FLORIDA • Orlando Area (Winter Park)

Quality Model Railroad Supplies.
N - HO - O - 027 - G, Lionel, LGB, MTH.
Latest Releases - Special Orders Welcome.
1-4 Exit 87, 1/4 mile east - 20 min. from
Disney, Mon-Fri 10-6, Sat 10-5.

THE TRAIN DEPOT
1934 W. Fairbanks Ave. 407-647-2244

FLORIDA • Pensacola

Full line Hobby Shop
Featuring HO, N gauge trains & accessories.
Mon - Sat 9am-6pm
www.bobeshobbyhouse.com

BOBE'S HOBBY HOUSE
5719 N. "W" Street 850-433-2187

FLORIDA • Pensacola

Competitive prices, friendly service.
All makes, models, trains & accessories
bought/sold, Z-G, Lionel, Micro-Train, Märklin,
Digitrax, LGB, Dealer. Directions: Old Palafox
at 10 Mile Rd. www.trains-usa.com

TRAINS BY JOHNSON
10412 N. Palafox St. 850-478-8584

FLORIDA • Port Orange (Daytona Beach)

Your Southern Connection for Quality
Products! Featuring O, HO & G.
MTH MegaStation & National Service Center.
Lionel Service, M-F 10-5; Sat 10-4.
www.roundhousesouth.com

ROUNDHOUSE SOUTH
4611 Ridgewood Ave. 386-304-7003

FLORIDA • Sarasota

Trains, trains, trains.
Model railroading at its best.
Visit us in the store or
on the Web at www.gcmrr.com
Open Mon-Thurs 10-6, Fri til 8, Sat 10-5.

GULF COAST MODEL RAILROAD, INC.
3222 Clark Rd. 941-923-9303

FLORIDA • Tampa

HO trains for the craftsman.
Large operating layout.
Scratchbuilders supplies.
www.happyhobotrains.com

HAPPY HOBO
4040 W. Waters Avenue 813-886-5072

FLORIDA • Tampa/St. Pete/Clearwater

The last decent place in Florida not
endorsed by Mickey Mouse. Huge inventory
in all gauges. Great store, come see!
Daily 10-6; Fri til 9, Sat 10-6, Sun 11-5
www.trains.com

H & R TRAINS, INC.
6901 US 19 N @ Haines Rd., P.P. 727-526-4682

GEORGIA • Atlanta (Kennesaw)

Trains: N, HO, DCC.
Paints, tools, plastics, books, mags, videos.
Service and repairs, custom painting,
detail parts.
Fax 770-353-0910

KENNESAW TRAINS & HOBBIES, INC.
2844 S. Main St. 770-528-0990

GEORGIA • Atlanta (Riverdale)

Atlanta's Finest Shop for serious modelers!
Quality items in all scales at fair prices.
Service - Repairs. 27 years of quality service.
Close to all Interstate Hwy's.
8-min. from Atlanta Airport, Tue-Sat 10-5:30

RIVERDALE STATION
6632 Hwy. 85, Riverdale Plaza 770-991-6085

GEORGIA • Atlanta (Roswell)

Wide selection of Lionel, Märklin, MTH, LGB &
Woodland Scenics.
Z - N - HO - O - G Scales
www.atlantatrain.com

ATLANTA TRAINS
4765 Alabama Rd NE (Hwy 92) #120 770-992-2785

When traveling, bring *MR*,
look up a shop
and stop in.

GEORGIA • Duluth (Atlanta)

Quality, selection & service.
Discount pricing in all scales.
www.trainmastermodels.com
T-W-Th 11-7; F-Sat 11-6; Sun 1-6; Clsd. M.
Across from NS Mainline & S.E. RR Museum

TRAINMASTER MODELS
3570 Buford Hwy. NW 770-622-1611

GEORGIA • Helen

Model railroader's delight. Experience a trip
through Germany "from the North Sea to the
Alps" in HO scale. Educational & fun. Thomas
& Friends & Elec. Trains. Auth. Lionel
Dealer. www.georgiamodelrailroad.com

CHARLEMAGNE'S KINGDOM
8808 North Main Street 706-878-2200

GEORGIA • Lawrenceville (Atlanta)

Trains of all sizes and makes. HO, G, O, and N
scale, 3 operating layouts, excellent selection
and service, train repairs.
www.legacystation.com to order on-line
24hrs. 800-964-8724 770-339-4417 fax.

LEGACY STATION TRAIN WORKS
251-F Hurricane Shoals Rd. 770-339-7780

GEORGIA • Pooler (Savannah)

Trains exclusively! Full line store, new & used.
Specializing in N, HO & G scales. Custom
building, DCC installations, Thomas & Friends.
Hours: Mon-Fri 4pm-8pm, Sat 12pm-6pm.
www.2ndchancetrains.com

2ND CHANCE TRAINS
1024 W. Hwy. 80 # 111 912-450-8726

GEORGIA • Savannah

Quality HO & N model RR supplies.
Mon-Sat 9:00-6:00.
Sun 1:00 - 5:30
1-800-611-8521, e-mail bullst@bellsouth.net
www.bullst.com

BULL STREET STATION
151 Bull Street 912-236-4344

IDAHO • Nampa

Idaho's best kept secret. A large selection of
new/old stock, HO scratchbuilding and detail
parts. Special orders welcome. Located in the
Karcher Mall. Mon-Sat 10-9, Sun 12-6

TEAM DEWEY TOYS & HOBBIES
1509 Caldwell Blvd. #19 208-461-5028

ILLINOIS • Alsip

Discount retail sales.
Authorized Horizon/Athearn dealer.
Specializing in HO, N and O.
Books, DVDs, magazines, Lionel.
www.hands2workrr.blogspot.com

HANDS TO WORK RAILROADING
4002 W. 127th Street 708-489-9776

ILLINOIS • Berwyn

Athearn parts, Walthers, Atlas, Details West,
Kadee, Badger, Aztec, Micro-Trains, Ever-
green, Plastruct, lumber, paint, Lionel, Flyer
repairs, Rocketry, plastic models, dollhouses.
Used magazines. www.pchobbycity.com

HOBBY CITY
6910 W. Cermak Rd. 708-795-0280

ILLINOIS • Burbank

Specializing in HO. One of the largest, most
complete exclusive model railroad shops in
the Midwest. Daily 11-7, Sat 10-5.
(Sun 11-3, Oct-April only). Closed Wed.

THE GOLDEN SPIKE TRAIN SHOP
6357 W. 79th Street 708-598-3114

ILLINOIS • Chicago

Full service store featuring 'G', 'O' (scale &
Hi-Rail), 'HO', 'N' scale, books, tapes, DVD's,
repair department. 15 minutes from O'Hare.
Fax 773-775-6398

CHICAGOLAND HOBBY
6017 N. Northwest Hwy. 773-775-4848

ILLINOIS • Chicago

Railroad memorabilia and models
HO, N and Z Scales
Airline memorabilia and models
www.graylandstation.com

GRAYLAND STATION
5514 W. Devon Ave. 773-594-1906

ILLINOIS • Decatur

Specializing in trains.
HO, O, N, and G. All discounted.
www.firsthobby.com
e-mail sales@firsthobby.com

FIRST HOBBY
2495 E. Federal Dr. 217-872-1733

ILLINOIS • Des Plaines

N, HO, S, O, G Std. & Narrow gauge too.
Lots of scratchbuilding parts and stuff too.
Brass, books & videos. Close to O'Hare.
Purchases shipped anywhere. M, Th, F 10-8;
Tu & W 10-6; Sat 9-30-5; Sun 1-5.

DES PLAINE HOBBIES
1468 Lee St. (Mannheim Rd.) 847-297-2118

ILLINOIS • Elburn

The ultimate importers of European Model
Trains. We carry Märklin, Fleischmann,
Roco, Falier and many others!
fax 630-365-6345 www.reynaulds.com

REYNAULD'S EURO-IMPORTS, INC.
122 N. Main St. 888-ROCO-USA

ILLINOIS • Elgin

N, HO, O, Circus models.
Scratchbuilding supplies, paints, tools.
Repair service. We will special order.
Digitrax dealer.

B & G TRAIN WORLD
829 Walnut Ave. 847-888-2646

ILLINOIS • Elmhurst

Serving Chicagoland for over 50 years.
Specialist in HO, N, Lionel, RC, plastic
detailing parts, decals, paints, books.
Minutes from O'Hare, UPS anywhere. Club
discount. trains@alshobbyshop.com

AL'S HOBBY SHOP
121 N. Addison Ave. 630-832-4908

ILLINOIS • Marion

Full-Line Hobby Shop.
HO & N scale locomotives, scenery,
plastic models, R/C, tools, paints, and more.
Open Tue - Fri 2-8pm, Sat 10 - 5pm

CHUCK'S DEPOT
1913 W. Rendelman St. P/F 618-993-9179

ILLINOIS • Maryville

Large 60' x 70' customer operated DCC HO
layout. Located 17 miles from St. Louis near
I-70/I-55 exit 15B. For shop hours/maps,
pictures, layout construction times, train
running see www.k-10smodeltrains.com

K-10'S MODEL TRAINS
19 Schiber Court 618-288-9720

ILLINOIS • Mundelein

Specializing in trains. HO, N, O, G, Lionel.
Books and videos. Northern IL railfan
headquarters. Closed Monday. Please call for
other hours. Fax 847-949-8687.
ronhobby@aol.com

RON'S MUNDELEIN HOBBIES
431 N. Lake St. (Rt. 45) 847-949-8680

ILLINOIS • Oswego

Authorized dealer: Lionel, MTH, LGB,
Williams, Marx, Aristocraft. All prewar trains,
standard/O gauge. Authorized
MTH repair center. I'll buy your trains.
dennyrtrain@aol.com Visa/MC/Disc/AmEx

DENNY'S TRAINS & THINGS
116 S. Main St. 630-554-6964

ILLINOIS • Springfield

HO / G / N.
Special orders / discount prices.
Display layouts / clinics / assistance.
Sat 9-6; Sun 12-5; Tues & Thurs 10-9.

CASTLE TRAINS & TREASURES
4782 Old Jacksonville Rd. 217-793-0407

ILLINOIS • Wheeling

NW suburbs' largest hobby store. HO & N
scale model RR equip, R/C planes, cars, &
boats. Huge selection of plastic kits.
Mon-Fri 10-8:30, Sat 10-6, Sun 10-5.
www.venturehobbies.com

VENTURE HOBBIES
23 Huntington Ln. (Dundee Rd.) 847-537-8669

ILLINOIS • Woodstock

Trains & Accessories for Z thru G.
Authorized Lionel and Märklin dealers.
Large Operating Lionel Layout.
Visit us at www.woodstockhobbies.com

WOODSTOCK HOBBIES, LTD.
124 Cass St. (Woodstock Sq.) 815-337-8770

INDIANA • Bremen

Small town, Large shop, all scales.
Discounts. Three operating layouts.
Large selection- since 1961.
M, Tu, Th, F 10-6; Sat 10-4.

BREMEN HOBBIES
308 N. Ind. 331 574-546-3807

INDIANA • Dyer

N, HO & O, DCC & Digitax Dealer. Atlas,
Athearn, BLI & Walthers. Plastics, modeling
supplies & detail parts. Special orders.
Competitive prices. M-F 10-7; Sat 10-5;
Sun 11-3. www.parklanehobbiesonline.com

PARK LANE HOBBIES
1080 Joliet St. (US 30) 219-322-1123

INDIANA • Elkhart

Authorized Lionel Value-added dealer. MTH
retailer and service center. Atlas O, American
Flyer, Kato, MicroTrains, Woodland Scenics,
USA Trains, Walthers, Dept. 56. Disc. on
everything. www.rupelttoytrains.com

RUPEL TOY TRAINS
23631 US Highway 33, Suite D 574-875-8008

INDIANA • Indianapolis

Trains are our only business! HO, N, O27.
Brass, books, magazines, detail parts, paints
& accessories. 1 block West of
Shadeland Ave. on Washington St.
Mon-Sat 10-6; Sun 12-5; www.trainstrains.biz

TRAIN CENTRAL
6742 E. Wash. (U.S. 40) 317-375-0832

INDIANA • Indianapolis (Greenwood)

NEW LOCATION! I-65 to Greenwood exit.
West on Main to Madison, south on Madison.
HO & N scale new & used.

WHISTLES & GROWLS, INC.
380 S. Madison Ave., Ste. D 317-881-6362

INDIANA • Indianapolis (Plainfield)

Trains, N, HO, O, detail parts,
accessories, magazines, books.
6 miles west of Indy Airport on US 40.
Monday-Friday 10-8, Saturday 10-6.
www.bigfourhobbies.com

BIG FOUR HOBBIES
1005 E. Main St. 317-837-1024

INDIANA • Lafayette

New location. You have to see it to believe it.
Color photos, rolling stock, structures,
detail parts: HO, HOn3, O, N scales.
Monday-Friday 10-8, Saturday 10-5.
Evenings by appointment.

HAWKINS RAIL SERVICES
3501 Union St., Suite 6 765-742-5577

INDIANA • Valparaiso

Complete line of hobby needs. HO, N,
Lionel. New, used, buy, sell, trade, repairs.
R/C cars & planes.
Mon-Thu 9:30-5:30, Fri 9:30-8, Sat 9:30-5.

VALPARAISO PET & HOBBY SHOP
18 North Washington 219-462-8346

IOWA • Cedar Rapids

Trains HO & N Athearn, Atlas, MDC,
Con-Cor, Bev-Bel, Kadee, M-F 10-8, Sat 9-5,
Sun 12-5. In the Town & Country
Shopping Center. Hobbies for everyone.

BOX KAR HOBBIES
3655-A 1st Ave. S.E. 319-362-1291

IOWA • Urbandale

N, HO, O, & Atlas
Lionel, MTH, Atlas
Exit #129 I-80/I-35, 2 miles south
Iowa's premier Model Railroad store
Open 7 days a week.

HOBBY HAVEN
2575 86th Street 515-276-8785

KENTUCKY • Elizabethtown

Huge showroom featuring model railroad
supplies in all gauges. Specializing in N, HO,
Z, and 3-rail O gauge. Collectible diecast toys,
model kits, rockets, metal hand-painted toy
soldiers & much, much more. Open 7 days.

HOBBY STATION
Houchens E-Town Plaza 270-737-2000

KENTUCKY • Louisville

Large selection of HO & N Scale products.
Walthers and Digitrax dealer. Everything you
need for your layout. Helpful sales staff.
Mon-Fri 10-7:30, Sat 10-5, Sun 1-5.
www.srhobbies.com

SCALE REPRODUCTIONS, INC.
3073 Breckinridge Ln. 502-459-5849

MARYLAND • Annapolis

If we don't have it, we'll get it! LGB, Woodland
Scenics, Walther's Dealer, Aristio,
Delton, Pola, Lionel, Bachmann,
Spectrum, Proto 2000, Mon-Sat 10-6.
Full line Kalmbach! starhobby1@msn.com

STAR HOBBY

1564 Whitehall Rd. 410-349-4290/4291

MARYLAND • Baltimore/Cockeysville

Model railroad headquarters since 1913.
Excellent selection HO & N equipment and
accessories. Lionel, K-Line. All at
discount prices. Mon-Fri 10-5, Sat 9-5.
www.modeltrainstuff.com

M.B. KLEIN

243-A Cockeysville Rd. 410-229-9995

MARYLAND • D.C. - VA, Kensington

Metro area's largest train shop
and widest selection.
Specializing in Lionel and collectibles.

LIONEL BUY & SELL

3610 University Blvd. 301-949-4000

MARYLAND • Frederick

Western Maryland's largest full-line shop.
MTH, Lionel, LGB, G, HO, N, Z,
Digitrax, MTH Authorized Service Center.
Open 7 days.
www.htfrederickmd.com for hours & map

HOBBYTOWN USA

919 C N. East St. 301-694-7395

MARYLAND • Laurel

Maryland's largest selection of brass.
Steel Mill Modeler's Headquarters.
10-5 Mon - Sat, 10-9 Thurs
www.peachcreekshops.com
Discount prices.

PEACH CREEK SHOPS

9105-L All Saints Road 301-498-9071

MARYLAND • Mt. Airy

For all your model railroad needs, from G to Z
gauge, Lionel, Flyer, American, LGB, Märklin,
Atlas, Athearn, Bachmann, Life-Like,
Kato, Mantua and more. Trains, accessories &
scenic materials. Since 1910.

TRAIN DEPOT

6 S. Main St. 301-607-8155

MARYLAND • Sykesville

Central Maryland's best kept secret - a family
friendly model train shop that specializes in
HO & N Scale at very generous discounts.
Please call for hours or visit us at
www.themoosecaboose.com

THE MOOSE CABOOSE

1341 W. Liberty Rd. 410-795-4610

MARYLAND • Waldorf

We specialize in All Scales! Atlas, Athearn,
BLI, Bachmann, Märklin, LGB, Lionel & MTH.
Digitrax, QSI, DCC Installation, Service &
Repairs. gsts@gscalestation.com
www.gscaestation.com

G-SCALE TRAIN STATION

2975 Old Washington Rd. 866-374-9340

MASSACHUSETTS • Acton (West)

100% trains, N, HO, HOm3, O,
kits, tools, books, videos.
New/used, buy, sell, trade.
Appraisals. Railroading spoken here.
M, W, F 7pm-9pm, Sat 9am-5pm.

ACTION MODEL RAILROAD CENTER

562 Mass Ave. (Rt. 111) 978-264-4020

MASSACHUSETTS • Chelmsford

HO & N Model railroad
Scale kits, parts & supplies.
How-to books and magazines.
Tues.-F 11AM-6:30PM, Sat. 10AM-5PM.
www.maine trains.com

MAINE TRAINS

210 Boston Road Rt. 4 978-250-1442

MASSACHUSETTS • Duxbury

G-1 - O - S - HO - N - Z.
Buy - Sell - Trade - New - Used - Repairs.
Marklin Dealer.
Open Wednesday - Sunday 11-6
Fax 781-885-2501

DUXBURY GREEN, INC.

382 Kings Town Way (Rt. 53) 781-885-2164

MASSACHUSETTS • Leominster

Specializing in New England road names,
HO/N Scale, Micro-Trains, Walther's, Horizon
dealer. Special orders discounted.
W, F 11-6, Sat 10-8. shepaug@aol.com Visit
us online @ Newenglandtrains.com

SHEPAUG RAILROAD COMPANY

152 Pleasant St. 978-537-2277

MASSACHUSETTS • Peabody

Trains old & new, bought, sold, repaired. All
gauges, makes, & conditions. Specializing in
Lionel, AF, Atlas, K-Line, MTH, Weaver,
Williams. (A Walther's dealer). Discount model
kits, paints, air brushes, scenery, slotcars.

NORTH EAST TRAINS (The Original)

18 Main Street 978-532-1615

MASSACHUSETTS • Rockland

Everything for the model railroader from N
thru G. Auth. Lionel & Atlas O dealer. Large
selection of magazines, videos, books. Expert
repairs. Between Boston/Cape Cod. Tues,
Wed 10-5:30, Thurs & Fri 10-8, Sat 10-5.

BILL'S FRIENDLY TRAIN SHOPPE

323 Centre Ave. 781-982-5292

MASSACHUSETTS • Rowley

HO exclusively: Sets, engines,
lots of structures & thousands of detail
accessories for beginner & craftsman!
Specializing in Civil War era RR. Wed, Fri,
Sat. 10-6, Thurs. 12:30-8, Sun. 12:30-5.

MOOSE MINIATURES

On Rte. 1 @ Rte. 133 978-948-6668

MASSACHUSETTS • Sudbury

N-Scale exclusively.
Large stock of quality rolling stock
& accessories in our fine store!
Open Wed, Thu, & Fri 4-8,
Sat. 10-5, Sun. 2-5.

KEN'S TRAINS

Mill Village, Rt. 20 978-443-6883

MASSACHUSETTS • Townsend

Full-line Hobby shop. HO, N, O, RR Supplies
Plastic model kits. Thomas & RC.
Auth. dealers of Digitrax, Lionel, Traxxas
and MUCH MORE!!!!
LightHouseHobbies.com. Open Tue-Sat 10-9

LIGHTHOUSE HOBBIES

18 Main St, Harbor Village Shop Ctr. 978-597-2600

MASSACHUSETTS • Warren

HO, N & O scale.
Extensive stock of parts and tools.
Huge railroad book and video collection.
Kits, buildings, scenery, Brass.
Open Tuesday - Saturday 10-5, Friday til 9.

TUCKER'S HOBBIES

29 Bacon Street 413-436-5318

MICHIGAN • Bridgeport

Scales Z to G. All at discount prices.
Am. Models, Aristio, Athearn, Atlas,
Bachmann, Con-Cor, IHC, USA, Kadee, Kato,
K-Line, Lionel, MTH, Walther's, LGB, HLW.
www.jvrrailroad.com

JUNCTION VALLEY RR HOBBY SHOP

7065 Dixie Hwy. 989-777-3480

MICHIGAN • Flint

G (LGB & 1:20.3), O (Lionel & MTH), On30,
HO, N, & Z. Locomotives, figures, buildings,
track, kits, scenery supplies, details, books &
videos. Digitrax Dealer. Repair service. VISA/MC.
Mon-Fri 10-8, Sat 10-6, Sun 12-5

RIDERS HOBBY SHOP

2061 S Linden Rd 810-720-2500

MICHIGAN • Fraser

Full line hobby shop.
Open Mon-Fri 10-8, Sat 10-6, Sun 12-5
www.pdnhobbyshop.com

P & D HOBBY SHOP

31280 Groesbeck Hwy. 586-296-6116

MICHIGAN • Grand Rapids

LGB, O (Lionel, MTH & Scale), HO, N & Z
Locos, cars, figures, buildings, track, tools,
kits, scenery supplies, details, books & videos.
Digitrax Dealer. Repair service VISA/MC
Open Mon-Sat 10-9

RIDER'S HOBBY SHOP

2055 28th Street SE 616-247-9933

MICHIGAN • Kalamazoo

Trains & train related items. MTH, RailKing,
Lionel, Flyer, HO & N New & used. We buy old
trains & toys. Large 3,000 sq ft O gauge layout.
Fri 1-6, Sat 10-5.

THE TRAIN BARN

10234 East Shore Dr. 269-327-4016

MICHIGAN • Livonia/Detroit

BUY SELL REPAIR
All Scales Z thru G, New and Preowned.
Complete selection of trains
and railroad supplies.
Tues - Friday 11-7, Sat 11-6.

MERRI-SEVEN TRAINS

19155 Merriman Rd. 248-477-0550

MICHIGAN • Mount Pleasant

We carry N through G scale, structures,
tools, scenery, scratch building supplies.
Special orders welcome.
Authorized Lionel & MTH Dealer.
Open Mon - Fri 9-6, Sat 10-3, Closed Sun.

MOUNTAIN TOWN HOBBYS

307 S. Mission St. 989-779-7245

MICHIGAN • Pickney (Ann Arbor area)

Large operating display layout. Featuring
MTH, Atlas O, Lionel, American Models,
S Helper, Bachmann G scale.
Plenty of HO, too. Closed Mondays.
We are in Dexter Township at Fort Leake.

MICHIGAN MODEL TRAIN CENTER

9260 McGregor Rd. 734-426-1651

MICHIGAN • Saginaw

Authorized Lionel & MTH Service & Sales.
Digitrax Dealer. 1,000's of parts, books, tools,
supplies. Major product lines, accessories.
E-mail: bobtraindoctor.com www.
brasseurselectrictrains.com Fax 989-793-2509

BRASSEUR ELECTRIC TRAINS

410 Court St. 989-793-4753

MICHIGAN • Taylor

Lionel, HO, N Scale Model Railroad
Open Mon-Fri 10:00 am - 8:00 pm
Sat 10:00 am - 6:00 pm
Sun 12:00 pm - 5:00 pm

RIDER'S HOBBY

22789 Northline Rd. 734-287-7405

MICHIGAN • Traverse City

Let your imagination run wild!
Z to G, Lionel, scenery, tools,
structures, scratchbuilding supplies,
special orders, ships, armor, cars,
dollhouse miniatures, more.

TRAINS & THINGS HOBBIES

210 East Front St. 231-947-1353

MICHIGAN • Wyoming

HO, N and Marx bought and sold.
American Flyer and Lionel also.
Tuesday thru Friday 12-6, Saturday 10-5.
Other hours available by appt. Please call.

HOBBY RECYCLING

2313 Lee St. SW 616-257-7155

MINNESOTA • Duluth

A very complete train shop. Special orders
accepted. Brass, PFM, Key, Sunset, Kato,
Athearn, MTH...custom painting & DMIR
scratch built cars. Lionel sales & service.

CARR'S HOBBIES

2009 W. Superior St. 218-722-7129

MISSOURI • Branson/Hollister

The Ozarks' full-line hobby center.
N-G scale trains & building accessories.
Special Orders Welcome.
E-mail: tpahobby@aol.com

TPA HOBBY CENTER

251-A St. James St. 417-335-6624

MISSOURI • Kansas City

Trackside location in KC's Historic
West Bottoms. HO & N Scale Trains,
Tools, Special Orders. Digitrax Dealer.
Exclusive "weathered" T-shirts.
www.docscaboose.com

DOC'S CABOOSE INC

1400 Union Ave. 816-471-7114

MISSOURI • St. Louis

One of St. Louis's largest train stores. All
scales plus repair services and detail parts.
Authorized Lionel, LGB, and Marklin service
centers. Mon-Fri 10:00a.m.-7:00p.m. Sat.
10:00a.m.-5:00p.m. Sun. 12:00p.m.-4:00p.m.

HOBBY STATION

301 S. Kirkwood Rd. 314-822-1927

MONTANA • Billings

Model railroad headquarters for the
Northern Rockies. HO, HOm3 & N scale.
Kits, parts, books. Tu-F 10-5:30; Sa 10-4.
Closed Sun & Mon. trains28@bresnan.net
www.jimsjunction.com

JIM'S JUNCTION

811-B 16th St. West 406-259-5354

MONTANA • Kalispell

N, HO, & O gauge. Specializing in NW RR's.
K, RTR, structures, parts & more.
See our incredible 1/2 Off table. Toll-free:
877-943-2829. wheatoncycle@centurytel.net
www.wheatonscycle.com. M-F 9-6; Sat 9-5.

WHEATON'S

214 1st Ave., West 406-257-5808

MONTANA • Missoula

HO, ON30, N scale products. Locomotives, rolling
stock, accessories, scratchbuilding supplies,
tools. Some hard to find, out-of-production
products. E-mail tchest333@aol.com Fax
406-549-6833. M-F 9:30-5:30 Sat 9:30-5:00

THE TREASURE CHEST

1612 Benton Ave. 406-549-7992

NEVADA • Las Vegas

While in Las Vegas,
check out our train selection.
Close to the Las Vegas strip.
Hours: Mon-Fri 10-8, Sat 10-7, Sun Noon-6.

HOBBYTOWN USA

5085 W. Sahara, Ste. #134 702-889-9554

NEVADA • Las Vegas

Electric trains & accessories
N, HO, S, O
Lionel/American Flyer Dealer

TRAIN EXCHANGE

6008 Boulder Hwy. 702-456-8766

NEVADA • Las Vegas

Big selection of HO, N and Lionel O
Gauge trains. Only 7 miles west of the
Las Vegas strip. www.thetrainengineer.com

WESTSIDE TRAINS

2960 S. Durango #117 702-254-9475

NEVADA • Reno

Everything for model railroad in all scales
DCC systems & support.
Books, videos, tools, parts, repairs
www.highsierramodels.com

HIGH SIERRA MODELS

4020 Kietzke Lane 775-825-5557

NEW HAMPSHIRE • Intervale

Z, N, HO, O, G, LGB, Märklin.
Hobby Shop, Museum, Crafts, Cafe.
www.hartmannr.com

THE BRASS CABOOSE

Route 16/302 603-356-9922/9933

NEW HAMPSHIRE • Wolfeboro Falls

N, HO, O, G sold in store.
Largest HO layout in NH.
Open Thur., Fri. and Sat. 10-5.
July to Labor Day: Thur. - Sat. 10-5; Sun. 12-4.

KLIKETY-KLACK RAILROAD

Jct. Rts. 28-109 & 109A 603-569-5384

NEW JERSEY • Cedar Grove

Authorized Märklin Digital & Maxi Dealer.
Lionel Service Station and V.A.D.
LGB, MTH and Aristo-Craft dealer.
HO, O-27, HO, N & Z scale.
We sell the best & service the rest.

TONY'S TRAIN TOWN

575 Pompton Ave. 973-857-2337

NEW JERSEY • Kearny

Authorized Lionel, MTH, Atlas O gauge.
LGB and Aristo train retailer.
Track and accessories, books, videos.
HO and N scale sets and repairs.
www.genestrainstop.com

GENE'S GREAT CENTRAL STATION

228 Belleville Tpke. 800-955-3992

NEW JERSEY • Kenil

Full service hobbies, a full line of
HO, N, 3-Rail, military, cars, boats,
planes, dollhouses, scratchbuilding
supplies, plus details-details-details!

KENIL HOBBIES

590 Rt. 46 973-584-1188

NEW JERSEY • Maplewood

HO, N, G, O & O27 track, structures and
supplies. Kato Unitrack, Gargraves,
Atlas, Lionel, LGB and more!
A full service shop! We will ship!
Tues-Fri 12-7, Sat 10-6, Sun 12-6.

MAPLEWOOD HOBBY

1970 Springfield Ave. 973-378-3839

NEW JERSEY • Mountain Lakes

One of northern NJ's largest train stores.
Auth. Lionel sales, service, and parts. Old
Lionel trains bought and sold. LGB, Atlas,
Life-Like, MDK. Auth. Walther's dealer.

THE TRAIN STATION

Romaine Road 973-263-1979

NEW JERSEY • Piscataway

Serving hobbyists since 1933.
Large selection of HO, N, S & O scale
Railroad books - complete repair service
Mon., Tues. & Thurs. 10am-6pm.
Sat. 10am-5pm, Wed. & Fri. 10am-9pm.

THE MODEL RAILROAD SHOP, INC.

Vail Ave. & New Market Rd. 732-968-5696

NEW JERSEY • Ramsey

Discount hobby center-11,000 sq. ft.
(5,000 sq. ft. display) HO, O, O27, N, G.
Locos, cars, accessories, collectibles,
plastics, scratch & more.

HI - WAY HOBBY HOUSE

806 State Rt. 17 North 201-327-0075

NEW JERSEY • Sea Girt

Let us help you. We can supply N thru O
gauge pieces. Aftermarket, supplies, books &
magazines too. Open every day except Wed.
We ship anywhere!

JERSEY SHORE HOBBY CENTER

2175 Hwy. 35 732-449-2383

NEW JERSEY • Somerville

Full line all scales N thru G.
Specializing in service.
Tues to Fri 11 am - 7 pm;

NEW YORK • Geneva

"Finger Lake's most complete train shop"
HO & N scale. Lionel value-added dealer.
Specialize in Lehigh Valley & other Eastern
Railroads. M-Sat 10-5; Th 10-9pm, or by appt.
Finger Lakes Railway Headquarters.

LAKE CITY HOBBY

437 Exchange St. 315-781-6397

NEW YORK • Horseheads

N, HO, O, & G scales.
Authorized Lionel dealer.
www.wholesalertrains.com

LANTZ HOBBY SHOP

101 S. Main St. 607-795-5038

NEW YORK • Hurley

Trains-Z, N, HO, S, O scale, models, rockets,
hobby supplies. Lionel & MTH authorized
dealer. 4 working layouts. Repairs, buy/sell.
Open 7 days. An old fashioned
general store. www.hurleycountrystore.com
HURLEY COUNTRY STORE INC
2 Wamsley Pl. (Old Hurley) 845-338-4843

NEW YORK • Kingston

Full service hobby shop. Walther's dealer.
Atheam, Atlas, Model Power,
HO, N & O gauge. Lionel dealer.
Mon-Thur 10-6; Fri 10-9; Sat 10-5.
jhhobby@bestweb.net
JH'S HOBBIES INC
37 N. Front St. 845-338-7174

NEW YORK • Latham

G, O, HO & N scales!
Full line of scenery, tools and structures.
If you need it, we'll try to get it!
Open Wed-Sat 12-7
Sun 12-5 (except June, July, August, Sept.).
JP'S TRAINS
277 Troy Schenectady Rd. 518-782-0981

NEW YORK • Mineola L.I.

Since 1949, Long Island's largest full-line
hobby superstore. 10,000 sq. ft. Featuring
LGB, MTH, Lionel, Märklin HO & Z, HO and
N scales. Books, detail parts and much more.
www.willishobbies.com
WILLIS HOBBIES INC
300 Willis Ave. 516-746-3944

NEW YORK • Norwood

Northern NY's largest full service
hobby shop. G, O, S, HO, N, Z.
All major lines carried. Authorized MTH
Service Center. Open 7 days a week. Buying
and selling. www.norwoodhobbyshop.com
NORWOOD HOBBY SHOP INC.
2-4 S. Main St. 315-353-6621

NEW YORK • Poughkeepsie

Area's largest model train store.
O/HO/N gauges, kits, track,
boats, planes, scenery, tools, paints.
Tu-W-F 10-6; Th 1-7; Sat 10-5
www.dutchesstrain.com
DUTCHESS TRAIN & HOBBY CENTER
43 Vassar Rd. 845-463-3417

NEW YORK • Rochester/Webster

Western NY's largest DCC Dealer + install!!
Full line of HO & N Locos and Rolling Stock
Atheam, Atlas, NCE, Digitrax, Stewart.
Call for hours.
www.empirenorthernmodels.com
EMPIRE NORTHERN MODELS
680 Ridge Rd. 585-670-0679

NEW YORK • Schenectady

G, O, S, HO, N & Z. 3,000 plus pieces N.
Over 2,500 pieces HO cars and kits, repairs.
Dealer Atheam, Lionel, Atlas, Digitrax, MRC,
Walther, LGB, USA, Kadee, NCE, Thomas.
www.MODELTRAINSDPARTS.COM
MODEL TRAINS AND PARTS
273 State St. 518-377-7900

NEW YORK • Schenectady

2,000 sq. ft. of trains. Operating layout.
G, O, HO, N scales. Books, videos, tools,
paint, magazines, model kits, old Lionel.
MOHAWK VALLEY RAILROAD CO
2037 Hamburg St. 518-372-9124

NEW YORK • Smithtown

O, HO, & N gauges.
All major lines of brass carried.
Building our specialty.
We are model railroaders.
3 GUY'S HOBBIES
10 Lawrence Ave. 631-265-8303

NEW YORK • Syracuse (East)

100% scale model railroading. HO, S, O, N.
Northeastern, New England, Canadian
specialists. Exclusive: Northeast Modeler,
West Shore Line kits. Closed Mon. Call for
free map & hours. www.centralhobby.com
CENTRAL HOBBY SUPPLY
102 Walter Dr. 315-437-6630

NEW YORK • Tappan

O, N, HO, large scales. Lionel, MTH, LGB,
Atlas. Branchline Trains dealer. Scenery
supplies. HO custom rolling stock. Call for
hours. www.theoldandwearycarshop.com
Red Pump Junction
OLD & WEARY CAR SHOP INC
33 RTE 303 845-680-0405

NEW YORK • Wellsville

O, HO & N. Weaver, Atlas, Atheam, MDC &
Walther's. Start-to-finish railroad supplies.
Magazines, Craftsman kits & Kadee.
Old local lines like W.A.G., Erie & E.L.
Tues. - Fri. 12-5, Sat. 10-3.
EAST DYKE DEPOT
332 E. Dyke St. (Rt. 417E) 585-593-0005

NORTH CAROLINA • Goldsboro

All major brands of HO & O
Specializing in southern roadnames
Open Mon-Thru Fri 12:00-1:00 & 5:00-7:00
Open Sat 10:00-7:00

A & EC MODEL RAILROAD & HOBBY SHOP

501 Patetown Rd. 919-736-8200

NORTH CAROLINA • Hildebran

New & Vintage Trains
Authorized Lionel Repair Station
ALL Gauges of Trains (G - Z)
www.planesandtrains.com
sales@planesandtrains.com
LELAND'S PLANES AND TRAINS
302 S. Center St. ph/fx 828-397-2457

NORTH CAROLINA • Mount Airy

All model trains
Thomas the Tank
"Kindling for imagination"
www.drybridgestation.com
DRY BRIDGE STATION
236 North Main St. 336-786-9811

NORTH CAROLINA • Old Fort

Full-service model railroad shop.
Large stock with daily orders.
Located just 2 blocks off I-40, exit 73.
Hrs: M, Tu, W, Th & Sat 10-5; F 10-8;
Sun 12-5. oldforttrains@aol.com
OLD FORT MODEL TRAINS
37 E. Main Street 828-668-9434

NORTH CAROLINA • Raleigh

The Shops at South Hills
A full line train shop.
G - O - HO - N - Z - Thomas The Tank.
www.tomtrainstation.com
TOM'S TRAIN STATION
1239 Buck Jones Rd. 919-388-7246

NORTH CAROLINA • Raleigh/Wake Forest

Authorized Digitrax, Soundtraxx, Walther's,
Bowser dealer. DCC experts. Installation
& Service. Computerized customer order
tracking. "Sharing the joy of model
railroading" www.trainbuddy.com
TRAIN BUDDY™ PRODUCTS
1200 Jenkins Rd. 919-562-4378

NORTH CAROLINA • Spencer

Across from NC Trans Museum. Large
selection of model trains, all scales. Digitrax
Dealer, RR videos/books & children's toys
Tu-Sat 10-5:30. www.littlechoochoo.com
or info@littlechoochoo.com
LITTLE CHOO CHOO SHOP, INC.
500 S. Salisbury Av. 800-334-2466

NORTH CAROLINA • Wendell

Lionel, K-Line, M.T.H. Discount prices.
Authorized Lionel Service Station #240.
On US Bus. 64. Loefer, Fri 1-8, Sat 9:30-5.
Closed Sun and Mon. Buy & sell.
TODD'S TRAIN DEPOT
3169 Wendell Blvd. (US 64 Bus) 919-365-5006

NORTH CAROLINA • Wilson

Complete stock HO, N, O, G. Discounts.
HO modular layout display. 1-95 Exit 119, east
on US 264, 4 miles to exit 42, right on
Downing Street and go to first light.
Mon-Sat 10 a.m. - 6 p.m.
THE ANTIQUE BARN & TRAIN SHOP
2810 Forest Hills Rd. 252-237-6778

NORTH DAKOTA • Bismarck

Never less than 100 locos, 700 cars.
HO, N, Atlas, Kato, Micro, Trains,
Digitrax. Sorry no O gauge
Largest Store Layout Anywhere!!
DAVE'S HOBBIES
200 W. Main Ave. 701-255-6353

NORTH DAKOTA • Minot

Full line hobby shop. N, HO, Lionel, Atlas,
Rivarossi, Atheam, Kato, Mantua, Micro
Trains, tools, paints, plastic model kits, books,
rockets, RC cars, RC airplanes, model
building supplies. Daily 10-6, closed Sunday.
AEROPORT HOBBY SHOPPE
2112 N. Broadway 701-838-1658

OHIO • Alliance

New and used trains of all scales. Custom
painting, full service repair department.
Tue, Thu, Fri 12-8pm, Sat 10-3pm.
www.alliancelink.com/robttrains
ROB'S TRAINS
333 E. Main St. 330-823-7222

OHIO • Cincinnati

New Hobby Shop: Atheam & Märklin Dealer
DCC Specialists & Decoder Installations
Kits, Track, Buildings, Scenery, Brass
HO, N, Z scale Trains Discounts on Everything
www.dcctrain.com
DCCTRAIN, LLC
8595 Beechmont Ave., # LL1 513-388-9000

OHIO • Cincinnati

Arnold, DCC, Lionel, Märklin, Rivarossi.
Craftsmen kits, scratchbuilding supplies from
Z to #1. Complete warranty and parts service.
Open Mon-Fri 3-7, Sat 10-4, Sun 1-5.
www.golfrmanorhobbies.com
GOLF MANOR HOBBIES-TRAINS
2235 Losantville Ave. 513-351-3849

OHIO • Cleveland (West Park)

Full line "old time" Hobby Shop located in a
1914 Victorian farm house, since 1983.
www.depotland.com
DEPOT TRAIN & HOBBY
4342 W. 130th Street 216-252-8880

OHIO • Cleveland/Lakewood

Large selection of prototype railroad books,
railroad magazines, general hobbies.
HO, N, LGB trains and accessories.

WINGS HOBBY SHOP

17112 Detroit Ave. 216-221-5383

OHIO • Cleveland/N Olmsted

Full line hobby shop. Complete model
railroad supplies including books,
magazines & accessories. Rockets, RC,
aircraft, cars & boats, dollhouses, etc.
www.hobbysetc.com
HOBBY'S ETC
23609 Lorain Road 440-979-1900

OHIO • Columbus

All complete stores. All scales: N, HO, LGB
www.hobbylandstores.com
HOBBYLAND
Graceland Shopping Center 614-888-7500
Reynoldsburg 614-866-5011
Northwest Sq. Sawmill & I270 614-766-2300

OHIO • Columbus

Specializing in Z, N, HO, O, G.
Model Trains European & American.
Märklin, Walther's, Lionel, MTH, Atlas.
We buy and sell used toys & trains.
www.robbyies-hobbies.com
ROBBIES HOBBIES
4578 N High St. 614-265-7288

OHIO • Columbus

Exclusively trains.
LGB, Lionel, O, HO, N scales.
Books, brass, video
Mon-Thur 10-6; Fri 10-8; Sat 10-6, Sun 12-5.
www.trainstationohio.com
THE TRAIN STATION
4430 Indianola Ave. 614-262-9056

OHIO • Mansfield

Full line hobby shop since 1977.
Full line through G scales.
Books, brass, video
Authorized Lionel service station.
Thomas the Tank and Brio.
Open Mon-Sat 10-5, Fri 'til 6:30.
JOHN'S HOBBY SHOP
15 N. Main St. (on the Square) 419-526-4426

OHIO • Troy

www.modeltrains.us.com
We are an authorized DIGITRAX DEALER.
Visit our new online warehouse,
over 60,000 items.
THE WHISTLE STOP TRAIN SHOP
29 S. Norwich Rd. 877-335-7799

OKLAHOMA • Oklahoma City

All Model RR. Discount Prices
Digitrax & TCS DCC Dealer
Decoder Installation
Open Mon-Fri 10-6, Sat 9-5.
Website: WhistleStopTrains.com
WHISTLE STOP TRAINS
1313 W. Britton Rd. 405-842-4846

Say you saw their
directory ad in
Model Railroader.

OREGON • Beaverton

Complete full line service hobby shop.
N, HO, N, Lionel, and LGB.
Open Mon-Fri 10-8; Sat 10-5, Sun 12-5.
TAMMIE'S HOBBIES
12024 SW Canyon Rd. 503-644-4535

OREGON • Corvallis

Full line hobby shop. HO, N, Z. Detail parts,
scenery, craft train kits, locos, cars.
Authorized Märklin dealer. Track, tools, books,
paints. Mon-Sat 10-7, Sun 1-5:30.
TRUMP'S HOBBIES
2401 NW Kings Blvd. 541-753-7540

OREGON • Eugene

Complete HO & N for beginners, experts, O
& Z and G too. We carry all major brands.
Scratchbuilding supplies, books, tools. Big RC
selection, planes, boats, cars.
Open Mon - Sat 9-6, Friday to 7.
EUGENE TOY & HOBBY
32 E. 11th Ave. 541-344-2117

OREGON • Forest Grove

Trains and only trains. Good selection of DCC
and low prices. Special orders, no problem.
25 miles west of Portland.
Tues-Sat 11-6. Closed Sun & Mon.
MAINLINE TRAINS
2707 Pacific Ave. 503-992-8181

OREGON • Portland

HO, N, Z, Lionel, DCC, brass
Reservation discounts, new, used,
Consignments, 16 minutes from Airport
www.hobbysmith.com
THE HOBBY SMITH
1809 NE 39th Ave. 503-284-1912

OREGON • Portland

G, O, HO, HO/N3, N & Z scales.
Brass, parts, superdetails.
Books and service
Daily 10-6. Closed Sun.
VIC'S HOBBY SUPPLY
606 NE Broadway St. 503-281-1032

OREGON • Portland

Your complete model railroad store.
Gauges Z through G.
Mon-Fri 10-6, Sat 10-5, Closed Sunday

WHISTLE STOP TRAINS

11724 SE Division St. 503-761-1822

PENNSYLVANIA • Allentown

Z-N-HO Scales
Paints-Books-Structures-Scenery
Electronics-Track-DCC
Your D&H Headquarters
Located in Merchant's Square Mall.
VICTORIA STATION TRAINS
1901 S. 12th Street 610-797-6040

PENNSYLVANIA • Blue Ridge Summit

The Exclusive model railroad store.
From N to G, we stock it all.
OPEN 7 days a week.
Only minutes from Frederick, MD.
www.mainlinehobby.com
MAINLINE HOBBY SUPPLY
15066 Buchanan Trail E. 717-794-2860

PENNSYLVANIA • Broomall

HO, N, Z, On30, G-K-Line, Lionel,
Am. Flyer, Williams. New MPC at discount
prices. Standard O & S gauges
bought, sold & traded. Auth. service ctr.
M, W, F 10-9, Tue & Thu 10-7, Sat 10-5.
NICHOLAS SMITH TRAINS
2343 West Chester Pike 610-353-8585

PENNSYLVANIA • Doylestown

Specializing in model railroad supplies.
LGB Train Stop, HO, N, Lionel.
One of the largest stocks of N in DELVAL!
Mon-Fri 9:30-9, Sat 9:30-6, Sun 12-5.
HERB'S HOBBIES & CRAFTS
200 W. State Street 215-345-7123

PENNSYLVANIA • Duncansville (Altoona)

Authorized MTH, Lionel, K-Line, Atlas,
Williams, Weaver & Grangers dealer. Over 30
mfrs of O gauge trains & accessories. HO, O, G
gauges. New/Used. Buy Trade & Sell.
Repairs. Open 7 days. www.genetrains.com
GENE'S TRAINS & HOBBIES
1381 Olde Rt. 220 N. Bus. #1 814-693-1451

PENNSYLVANIA • Erie

Lionel, American Flyer, Marx.
Trains bought, sold and repaired.
Mon-Sat 10-5
www.choochooauctions.com
CHARLES SIEGEL'S TRAIN CITY
3133 Zuck Road 814-833-8313

PENNSYLVANIA • Gettysburg

Everything for the model railroader.
Huge selection of brass locos. Complete
stock N & HO gauge. Daily 10-5, Sun 12-5.
E-mail tghbysnp1@embarqmail.com
www.gilbertshobbies.com
TOMMY GILBERT'S
346 E. Water Street 717-337-1992

PENNSYLVANIA • Gilbertsville (Boyetown)

Quality European & American trains. Auth.
Märklin Dealer, HAG, Lionel, Kadee,
Atheam, Vollmer, Falier, Kibri and Noch
layouts. Repair service. Operating layouts.
MODELLBAHN OTT HOBBIES INC.
1145 E. Philadelphia Ave. 610-367-5925

PENNSYLVANIA • Jeannette

Trains exclusively. Lionel, MTH, HO & N.
Supplies and accessories at discount prices.
Open daily 9:30-5, Mon&Fri 9:30-7, Sat 9-4,
Closed Tue. Expanded hours Nov. and Dec.
www.neetrains.com
NIEDZALKOSKI'S TRAIN SHOP
214 South 4th Street 724-523-8035

PENNSYLVANIA • Lansdale

Exclusively trains.
N - HO - O - G
Specializing in DCC
www.linsjunction.com
linsjunction@comcast.net
LIN'S JUNCTION
128 S. Line St. 215-412-7711

PENNSYLVANIA • Montoursville

Model railroads only.
We buy, sell, and trade.
Open 9-5, 6 days a week Jan-Oct.
Open 9-8, 5 days a wk., 9-5 Sat Nov & Dec.
ENGLISH'S MODEL RAILROAD SUPPLY
21 Howard Street 570-368-2516

PENNSYLVANIA • Philadelphia (Feasterville)

Lionel, American Flyer, LGB, MTH, Märklin.
M-F 12-8; Sat 10-5 (Clos. Sat. July & Aug.)
Sunday's in December 10-5
I-95 or US-1 to PA-132 at Bustleton Pike.
JOE'S TRAIN STATION
21 East Street Road 215-322-5182

PENNSYLVANIA • Pittsburgh (Mt. Lebanon)

HO, N, Lionel, LGB, brass locos,
supplies, kits, repairs.
A full service hobby shop.
Call for hours.
A. B. CHARLES
1635 McFarland Rd. 412-561-3068

PENNSYLVANIA • Strasburg

Pennsylvania heritage model railroading.
Sets, locos, rolling stock, books & videos.
Z, N, HO, S, O, G. All major suppliers.
www.strasburgtrainstore.com
BACKSHOP BOOKS & HOBBIES
STRASBURG RAIL ROAD SHOPS
Rt. 741 East 877-475-8990

PENNSYLVANIA • Strasburg
From trains to diacast to scenery, everything for the layout builder. Open 7 days a week.
N, HO, O, Lionel, LGB.
Buy, sell, trade used trains.
Located adjacent to the Choo Choo Barn.
STRASBURG TRAIN SHOP
Route 741 East 717-687-0464

RHODE ISLAND • Pawtucket
Under New Management!
Railroad Supply Center. All scales, Special order & Club discounts. Large selection of N & HO, plus supplies & more.
Hours: M-Th 10-6; F 10-8; Sat 9-5; Sun 12-4.
DARLINGTON HOBBIES
506 Armistice Blvd. Rt 15 & 1A 401-722-7574

RHODE ISLAND • Warwick
HO trains, access., detail parts, plastic, Crafts-person kits, Hobby supplies, tools Tu-Fri 12-8, Sa 10-6 (Sun Nov-Jan 12-6) Closed Mon.
1/2mi.W. of airport, www.mailcarhobbies.com
or e-mail mailcarhob@aol.com
A. A. HOBBIES, INC.
655 Jefferson Blvd. 401-737-7111

SOUTH CAROLINA • Easley
All scales from N to G.
Buy, Sell, Trade.
Thomas The Tank
Closed on Sunday
rainspike@mindspring.com
RAIL & SPIKE TRAINS & HOBBIES
1943 E. Main St. 864-850-0237

SOUTH CAROLINA • Greenville
100% Trains - ALL AT DISCOUNT PRICES
100%+ Products in All Scales Available
Online 24/7 www.BlueRidgeHobbies.com
Retail Store Open Tues - Sat
Featuring HO, N, O (HO & O Layouts)
BLUE RIDGE HOBBIES
2327 N. Pleasantburg Dr. 800-988-2125

SOUTH CAROLINA • West Columbia
All scales, all major brands of model railroad equipment.
We buy & sell used Lionel trains.
Open daily 10-6. Closed Sun.
NEW BROOKLAND RR & HOBBY SHOP
405 State Street 803-791-3958

TENNESSEE • Chattanooga (E. Ridge)
Specializing in HO & N scale model railroading. Convenient to I-24 & I-75.
On US 41 near Germantown Rd. Open Tue-Sat 10-6. www.chattanooga Depot.com
CHATTANOOGA DEPOT
3701 Ringgold Road 423-622-0630

TENNESSEE • Crossville
East Tennessee's DCC/DCCS headquarters.
Auth Digitrax dealer. Discounted prices!
MTH, Lionel, Atlas, Proto, BLI, Walther's
Convenient to I-40 exit 317
Tues-Fri 10-5/Sat 10-4 Visa/MC/Discover
HOBO'S HOBBIES - TRAINS & PLANES
104 Northside Drive 931-484-1900

TENNESSEE • Knoxville
New Location! Turkey Creek Area. Knoxville's most diverse hobby store, carrying a large selection of model railroad supplies.
HO, N, O and now G. Open 7 days a week.
HOBBYTOWN USA
11364 Parkside Dr. 865-675-1975

TENNESSEE • Madison
Atheam • Walther's • Lionel • Atlas
Bachmann • Woodland Scenics • and many other brands. Huge variety of buildings and supplies. Vast selection of plastic model kits.
AARDVARK'S MODEL TRAIN SHOP
768 Madison Square 615-865-4639

TENNESSEE • Memphis
Everything for the model railroader, G-Z, Atheam, Atlas, Mike's Train House, LGB, Lionel scales, service, parts, Paints, tools, books, detail parts, building supplies.
We ship anywhere. modeltrainarsus.com
MODEL RAILROAD & HOBBY
1266 Sycamore View 901-384-6500

TENNESSEE • Murfreesboro
Rutherford County's largest selection of hobby items. Carrying a wide variety of model railroad supplies, HO, N & O
Located just off I-24 at Medical Center Pkwy (exit 76). Open M-F 10-7; Sat 10-5.
HOBBYTOWN USA
536-J N. Thompson Ln. 615-890-6777

TEXAS • Amarillo
Plastic aircraft, armor, cars, figures & ships, model railroading supplies & rockets.
Take Oage ex 1-40 South to 34th St. Right 1/2 mile to Tradewind Business Park, turn left to 3601.
http://www.hobbytime.com
HOBBY TIME
3601 Airway Blvd. 806-352-9660

TEXAS • Dallas
Celebrating our 27th year!
One of the largest selections of Lionel, American Flyer & Märklin.
Expert repairs & great customer service.
www.trainandtots.com
COLLECTIBLE TOYS & TRAINS
13615 Welch Rd. #103 214-373-9469

TEXAS • Dallas (Addison)
Great discounts on thousands of G to Z scale items in stock and special orders.
Easy DCC, NCE & Digitrax dealer.
Monday - Saturday 10-6.
DISCOUNT MODEL TRAINS
4641 Ratliff Lane 972-931-8135

TEXAS • Denton
HO & N scale at discount prices.
DCC decoder installations.
Home of Silver Spike Shop's custom cars.
Tuesday-Friday 10-6, Saturday 10-4.
SILVER SPIKE HOBBIES
525 N. Elm St. 940-383-3914

TEXAS • Fort Worth
HO, N, Z scale trains. Craftsman kits, scenery, paints, tools, accessories. Plastic models, rockets & books. All at discount prices.
Special orders welcome. Hours: Tues, Wed & Fri 3-6, Thu 3-7, Sat 9-4:30, & by appt.
HOBBY WORLD
5658 Westcreek Dr., Ste. 500 817-263-5750

TEXAS • Fort Worth (Haltom City)
N, HO, N3, HO, N3, HO, O. Craftsman kits, Details/Tools, DCC sales and installation.
hrs. Mon to Fri 11:30-6:00;
Sat 10:00-6:00; Sun 1:00-5:00.
www.angelohobbies.com
ANGELO HOBBIES
5515 Bonner Dr., Suite B 817-428-0190

TEXAS • Houston
HO & N, Lionel trains and service.
Complete line of plastic kits, military and architecture supplies.
Open 11am-6pm, Thur. to 7pm;
Sat. 10am-5pm
G & G MODEL SHOP
2522 Times Blvd. 713-529-7752

TEXAS • Houston
Complete line of HO & N model railroad supplies. Magazines, books, video ref. center & scratch building supplies.
Mon-Thurs 10-6, Fri-Sat, 10-7 & Sun 12-5
LARRY'S HOBBIES
156-F FM 1960 East 281-443-7373

TEXAS • Houston
All trains, all scales. Magazines, Books, Videos, Repairs, Brass, Used, Generous discount program, will ship. papabens@pearlman.com
M,Tu,Th & F 10-6; W 10-7; Sat 10-5; Sun 12-5
Major Credit Cards. www.papabens.com
PAPA BEN'S TRAIN PLACE
2506 South Blvd. 713-523-5600

TEXAS • Houston Area (Spring)
Exclusively model railroading, tools, craftsman kits, repairs, electronics, software, Digitrax DCC, NCE, TCS, Soundtraxx, Logic Rail, and Thomas & Friends.
SPRING CROSSING
1420 Spring Cypress 281-353-9484

TEXAS • Irving (Dallas Area)
U/C and R/C planes, HO, N trains, RR & aviation magazines and books.
Scale plastic kits, balsa wood.
Mon 1-6, Tue-Wed 10:30-6, Thur-Fri 10:30-7.
Sat 9:30-6. www.mahobby.com
M-A-L HOBBY SHOP
108 S. Lee Street 972-438-9233

TEXAS • San Antonio
Model railroading our specialty.
Märklin, LGB, HO, N, O, Z.
Superdetailing parts galore.
Books, structures, figures and tools.
Tues-Sat 10-6pm
DIBBLE'S HOBBIES
1029 Donaldson Ave. 210-735-7721

TEXAS • San Antonio
Quality new and used trains and accessories all scales. Open everyday. All kinds of trains, toys, memorabilia Lionel, LGB, Microtrains, Thomas and more. We buy, sell, service.
www.lonestartrains.com
LONE STAR TRAINS & COLLECTIBLES
4161 Naco-Perrin 210-655-4665

UTAH • Orem
Where it's always cheaper than therapy.
Trains all scales. LGB, Broadway Limited, Atlas, Lionel, Micro Trains, Atheam. Behind Arby's across from the University Mall.
HOBBY STOP, LLC
327 East 1200 South 801-226-7477

VERMONT • Rutland
Exclusively Model Railroading. Most major lines. Brass, custom painted models.
Competitive prices. Personal service.
Open by appt. Evens 6-10, Sat 10-10.
THE STEAM SHACK
10 Engrem Avenue 802-775-2736

VIRGINIA • Bristol
Lionel, MTH, LGB-Marklin, Bachmann, Aristocrat & many more fine manufs. New & used model trains, Z-G scales. Located off exit 5, I-81, M, W, R, F, Sat 10-6; Sunday 1-5
sidetracksouth@hotmail.com
SIDETRACK HOBBIES SOUTH
2113 Lee Highway 276-591-5513

VIRGINIA • Deltaville
Authorized dealer for Lionel, MTH, Märklin, LGB, Atheam. We stock HO, O & G Gauge Trains.
Email: leepau81956@earthlink.net
DELTAVILLE DEPOT
16474 Gen. Pulley Hwy. 804-776-7250

VIRGINIA • Massanass
MTH/Lionel/Anth Dealers SVC STA, LGB Train Stop, Aristocrat, USA, Auth. Digitrax Dealer.
Area's largest all scale train store. G, O, S, HO, On30, N, Z, RC Boats/Planes/Cars
www.traindepotonline.com
TRAIN DEPOT, INC.
7214-16 New Market Ct. 703-335-2216

VIRGINIA • Midlothian (Richmond)
O, N, HO scale accessories, Lionel, MTH, Atlas O, scenery, building supplies, books, major HO, N tapes. Visit our website!
www.chesterfieldhobbies.com Hours:
Mon-Sat 10-6, Sun 12:30-5:00 Tue, Fri til 8.
CHESTERFIELD HOBBIES INC
13154 Midlothian Tnpk. 804-379-9091

VIRGINIA • Newington
Märklin, MTH, Lionel, LGB & Aristo-craft
Scalextric, Carrera, Slot-It, Nincro & Fly
Steiff, M. Alex. Dolls & More! Open 7 days,
Nov 5-Jan 14, otherwise closed Mon. Visit our shop 1/4 mile off I-95
www.trainsetc.com
TRAINS ETC
8245-A Backlick Rd. 703-550-1779

VIRGINIA • Roanoke
Lionel, LGB, G, AF, HO, N & MTH
Buy, sell, trade, repair.
Lionel SS # 383
Mon-Fri 10-7; Sat 10-5:30; Sun 1-5.
Two minutes off Exit 146 on I-81.
RAIL YARD HOBBY SHOP
7547 Williamson Rd. 540-362-1714

VIRGINIA • Roanoke
Lionel, MTH, G, HO, & N scale hobby supplies. Buy, sell or trade. Digitrax dealer.
Hours: M-W TH-F 10AM-7PM
Tues. & Sat 10AM-5PM, Sun 1-5PM
www.rickshobbyshop.com
RICKS HOBBY SHOP
6711-B Williamson Rd. 540-362-7033

VIRGINIA • Staunton
Lionel Service Center #117, 3rd Rail, HO, N.
Plastic models & supplies, rockets, Thomas Wooden Railway System, Garrett Metal Detectors.
Mon-Fri 10-6, Sat 10-5, Sun 1-4.
STAUNTON TRAINS & HOBBIES
123 W. Beverley St. 540-885-6750

WASHINGTON • Bellevue (Seattle)
100% Trains, Brass, Used, Generous discount program, will ship. papabens@pearlman.com
M,Tu,Th & F 10-6; W 10-7; Sat 10-5; Sun 12-5
Major Credit Cards. www.papabens.com
PAPA BEN'S TRAIN PLACE
2506 South Blvd. 713-523-5600

WASHINGTON • Camas
HO and N. Parts and accessories.
Working to be your model railroad source.
Tuesday-Friday 11-7, Saturday 11-5.
NWS SPECIALTIES TRAIN SHOP
335 NE Lechner St. 360-835-7607

WASHINGTON • Kennewick (Tri-Cities)
HO and N trains, Dollhouses, rockets & plastic models, NCE & Soundtraxx authorized dealer.
Hours: W 11-10:30; Sat 10-4.
www.parkadehobbies.com
PARKADE HOBBIES
223 West Kennewick Ave. 509-585-2510

WASHINGTON • Kirkland
Lionel, American Flyer, LGB, HO, N.
Buy, sell, and repair.
Supplying all your railroading needs.
Open Mon-Sat.
www.eastsidehobbies.com
EASTSIDE TRAINS, INC.
217 Central Way 425-828-4098

WASHINGTON • Port Angeles
Model Railroading: G, O, O27, HO, N.
Visit our waterfront location
E-mail: phrobby@olympen.com
Mon-Sat 10-6; Sun 12-5
PACIFIC RIM HOBBY
138 W. Railroad Ave 360-457-0794

WASHINGTON • Seattle
Model Railroading since 1947.
Atlas to Zona. We do special orders.
New and used brass and books.
Mon - Wed 10-6, Thurs - Fri 10-8, Sat 10-6
www.northerntrains.com
NORTH END TRAIN CENTER
12537 Lake City Way NE 206-362-4959

WASHINGTON • Seattle
Trains all scales including Nn3.
Special interest in N scale.
Great place to railfan-5 min. from downtown
Website: www.seattletraincenter.com
Mon-Fri, 10-7, Sat, 9-6
SEATTLE'S TRAIN CENTER
1463 Elliott Avenue W. 206-283-7886

WASHINGTON • Seattle
New & vintage electric trains - all scales
Located in West Seattle - 8 min. from I-5
MTH, Lionel, Atlas, Atheam, MicroTrains
Tue-Sat 11-6, E-mail: eltraino@aol.com
THE ELECTRIC TRAIN SHOP
4511 California Ave. SW 206-938-2400

WASHINGTON • Spokane
100% trains.
Open Monday-Friday 10am - 6pm.
Always open Saturday 10 - 5.
Closed Sunday & holidays.
SUNSET JUNCTION MODEL TRAINS
419 E. Sprague Ave 888-838-2379

WASHINGTON • Tacoma
Lionel, LGB, HO, N, G.
Railroad gifts, novelties, hats, shirts.
Books, paints, supplies, decals.
See our website! www.tacoma-trains.com
Mon-Sat 10-6 (Sun 12-5 Oct-Mar).
TACOMA TRAINS
3813 North 26th St. 253-756-7517

WASHINGTON • Tacoma (Lakewood)
We carry a large selection of HO & N scale model railroading supplies at discount prices. Special orders welcome.
Tues-Fri 10am - 6pm; Sat & Sun 10am - 4pm.
Website www.onlinetrains.com
ONLINE TRAINS & HOBBIES
3905 Stellacom Blvd. SW 253-472-7732

WASHINGTON • Tacoma (Lakewood)
South Puget Sound's most complete RR store. G, O, HO, N, Z, LGB, Lionel, Märklin, DCC, parts, tools, scratch stuff, books.
Daily 11-7, Sat. 10-6, Sun/Oct. - May 1-5.
PACIFIC RAILWAY HOBBIES
9525 Gravelly Lake Dr. SW 253-581-4453

WISCONSIN • Butler
Atlas, Life-Like, Intermountain, Broadway, Walther's, Micro Trains, Märklin, Kato, Woodland Scenics, Atheam, New and used. We UPS anywhere in USA. Repair, buy, sell, trade. www.sommerfelds.com
SOMMERFELD'S TRAINS & HOBBIES, INC.
12620 W. Hampton Ave. 262-783-7797

WISCONSIN • Eau Claire
Western WI's most enjoyable Train Shop.
Lionel, K-Line, MTH & other O, Hornby, Märklin, American HO, N & G. Operating Layouts. Repairs, kits & access. Fun!
www.modeltrainclassics.com
MODEL TRAIN CLASSICS, PLUS
306 South Barstow St. 715-838-8858

WISCONSIN • Elroy
Exclusively Model Trains with operating layout. G, O/O27, HO, & N scale kits, RTR, buildings and supplies. M-F 9-5:30; Sat 9-3, Closed Sun. Website: www.aplustrains.com
Email: trains@aplustrains.com
THE TRAIN SHOP
130 Main 608-462-8720

WISCONSIN • Fond du Lac
O-HO-N Scale. Lionel, MTH, Atheam, Atlas, Kato, Bachmann, Intermountain, Broadway Ltd., Walther's, Woodland Scenics, scratch building supplies. M-F 10-9; Sat 10-8; Sun 11-6. www.fondyhoobby.com
FONDY HOBBY / FOREST MALL
835 W. Johnson St. 920-923-6950

WISCONSIN • Green Bay
Exclusively trains, specializing in DCC, N, G, & HO, DCC installation and award winning custom painting and building available.
www.enginehouseservices.com
ENGINEHOUSE SERVICES, LLC
2737 N. Packerland Dr. 2H 920-490-4839

WISCONSIN • Madison
Authorized Lionel dealer, HO & N scale
DCC - Soundtraxx
Metals - Styrene - Scenery
NMRA Discounts
Mon - Fri, 10-8, Sat, 10-5
MADISON HOBBY STOP
6622 Mineral Point Rd. 608-829-3820

WISCONSIN • Milwaukee
Complete model railroading. Everything in the Walther's Reference Books and more.
Complete service. 800-487-2467.
www.walther.com
WALTHERS SHOWROOM
5619 W. Florist Avenue 414-461-1050

WISCONSIN • Milwaukee (Greenfield)
Largest hobby store in WI. Most scales carried. Full selection of HO & N. Huge book & mag. selection. NMRA discounts. Special orders welcome. General repairs. 4 miles west of airport. M-F 10-9; Sat 10-5, Sun 12-5.
GREENFIELD NEWS & HOBBY
6815 W. Layton Ave. 414-281-1800

WISCONSIN • Monroe
Auth. Lionel, MTH & K-Line Dealer. Atlas O, N, HO, Z trains & accessories, plastic kits.
Books, videos, tools & model rockets.
Summer hours: M-F 10-8; Sat 10-5; Sun 12-4.
THE HOBBY DEPOT
835 17th St. 608-325-5107

WISCONSIN • Waukesha
Märklin • Lionel • MTH • AF • LGB • Z to G • buildings • scenery • detail parts • books • scratchbuilding supplies • special orders • NMRA discounts • M-F 11-8; Sat 10-5, www.hiawathahobbies.com
JETCO'S HIAWATHA HOBBIES
1701 Summit Ave. 262-544-4131

CANADA-AB • Calgary
Your complete model RR store. Large selection of all major brands. Special orders.
Open Mon-Fri 9:30-9:00; Sat 9:30-5:30; Sun 12-5. Fax: 403-243-7782.
E-mail us at: trainshobbywest@shaw.ca
CHINOOK & HOBBY WEST
5011 MacLeod Trail S.W. 403-243-1997

CANADA-AB • Calgary
100% Trains; All Scales
Lionel • Tri-ang • Proto • Walther's.
Brass, Collectibles, Memorabilia & Books.
www.trainandsuch.com
TRAINS AND SUCH
2604 - 4th Street NW 403-277-7226

CANADA-AB • Edmonton
Everything for model railroading. Most quality lines in completeness.
Hobby tools. Special orders.
Fax: 780-430-9073.
ROUNDHOUSE SALES
9518 - 87th Street NW 780-430-9072

CANADA-AB • Olds

www.canadianscalerail.com
Model trains in HO, N, G,
Canadian & US Roadnames

CANADIAN SCALE RAIL/FUN TIMES HOBBY
5026 50th Street 403-556-3771

CANADA-BC • Langley (VAN)

Specializing in European Model Trains
Märklin, Roco, Brawa, Fleischmann & more.
Huge selection of trains, kits, & access.
HO-N-Z-1-G Scales, Mon-Fri 9-4:30 Sat 10-2.
www.EuroRailHobbies.com
EURO RAIL HOBBIES & MORE INC
1526 232nd St. 866-799-6098

CANADA-BC • Port Moody (Vancouver)

O - HO - N - Z Scale Model Trains &
Accessories. All Major Suppliers, Canadian
Prototypes, Special Orders, Buy, Sell, Trade.
Open 7 days a week.
www.ontrackhobbies.com 1-877-461-7670
ON TRACK HOBBIES
#16 - 3130 St. Johns St. 604-461-7670

CANADA-BC • Vancouver

Large selection of model RR supplies
including Miniatures by Eric, Athearn, Atlas,
MDC, NWSL, Peco, Shinohara, etc. Brass.
Special orders, www.central-hobbies.com
Open 11-6, Fri til 9. Closed Sundays.
CENTRAL HOBBIES
2845 Grandview Hwy. 604-431-0771

CANADA-BC • Victoria

Full line hobby store.
Z, HO, O & G scales.
Buy, sell, trade, E-mail: info@bcschaver.com
www.BCSchaver.com
B. C. SHAVER & HOBBY SHOP
742 Fort Street 250-383-0051

CANADA-BC • Victoria

Vancouver Island's one stop modelrailroading
store. Exclusively fine models all scale.
vsrtd@telus.net www.victoriastore.com
Mon-Thur, Sat 10-6, Fri 10-8, Sun Noon - 5.
VICTORIA SCALE RAIL LTD.
3595 Ravine Way 250-475-2860

CANADA-ON • Alliston

HO, N, G, On30, Steam and Diesel.
Limited Edition Art, Books and Videos.
Live steam.
5 days a week (closed Mon & Tues).
www.hvr.ca
HOCKLEY VALLEY RAILROAD
4492 Adjala-Tecumseth Townline 705-435-7024

CANADA-ON • Brampton

Closing January 2009
Clearing out all stock & accessories of
N, HO, O27, O and G scale.
www.littletrainshoppe.com
THE LITTLE TRAIN SHOPPE
45 Railroad St. 905-454-7448

CANADA-ON • Burlington

Your Mainline to Model Railway Supplies
Authorized Lionel Dealer & Service Station
K-Line, Kato, Atlas, Athearn, Bachmann,
Walthers O/27, HO & N. Open daily.
www.trainsonbrant.ca
TRAINS ON BRANT
2180 Itabashi Way, Unit #2 905-637-3721

CANADA-ON • Dundas

Your full line hobby shop. Open 7 days a
week, N, HO, AF, Lionel, LGB, Scenery and
scratchbuilding supplies. Walthers dealer,
Kato products. Special orders welcome!
E-mail us at: dundasvalleyhobby@cogeco.ca
DUNDAS VALLEY HOBBY
15 Coates Dr. 905-628-9156

CANADA-ON • Fergus

Model Trains for Beginners to the Experts.
Buy, Sell, Trade, Repair.
HO, N, O/27, S, G.
Come See Our Trains.
www.2bintrains.on.ca
2B IN TRAINS
6168 Road 29 519-787-3280

CANADA-ON • Hamilton

Exclusive line of Ontario Northland (ONR)
and Toronto, Hamilton & Buffalo (TH&B)
product - HO & N. Full-line hobby shop
(3,500 sq. ft.). DCC. Open 7 days a week.
www.modelerschoice.com
MODELLER'S CHOICE
1400 Upper James St. 905-574-3322

CANADA-ON • London

Complete Canadian trains & more N, HO, G,
Athearn, Hornby, Peco, Walthers.
Special orders, plastics, parts, supplies,
books, DVD's. Mon-Fri 10-8, Sat 9-5.
sales@rthobby.ca www.rthobby.ca
BROUGHDALE HOBBY
1444 Glenora Drive 519-434-0600

CANADA-ON • Mount Forest

45 Min North of Guelph. Fax# 519-323-3809.
Authorized Lionel value added dealer.
One of Canada's largest Lionel retailers
MTH, K-Line & more. Full line HO dealer.
www.traincellarcanada.com Closed Monday.
THE TRAIN CELLAR
149 Main Street North 519-323-3935

CANADA-ON • Ottawa (Vanier)

One of Canada's leading model shops.
Complete selection of HO & N gauge.
Friendly knowledgeable staff.
Free Parking. On parle Français.
HOBBY HOUSE, LTD.
80 Montreal Road 613-749-5245

CANADA-ON • Peterborough

For the discriminating hobbyist
MRR Headquarters in the Kawartha
Digitrax dealer, Atlas and MRC DCC, books,
Walthers, major brands, detail parts,
Woodland scratchbuilding supplies.
COSBURN'S HOBBY DEPOT LTD.
161 Simcoe St. 705-743-0244

CANADA-ON • Port Hope

New location between CP & CN rail lines.
Watch trains from our window. Specializing in
model railroading supplies. Check our web-
site www.thetrainemporium.com for hours/
directions/product lines. 1-866-885-2270
THE DOLL HOUSE & TRAIN EMPORIUM
100 Peter Street 905-885-0070

CANADA-ON • St. Catharines

Over 450 different brass locomotives. We
buy, sell, trade, and repair 6,000 sq. ft. of
hobby supplies. Daily 9:30-5:30, Fri til 9.
Closed Wed. Fax 905-684-1700.
Visit us at www.niagaracentralhobbies.com
NIAGARA CENTRAL HOBBIES
395 St. Paul Street 905-684-7355

CANADA-ON • Streetsville

(Mississauga) All rail, all scales.
Premier selection & service.
New & used, consignments,
custom painting, special orders too!
Railfan Headquarters! www.cvrco.com
CREDIT VALLEY RAILWAY COMPANY, LTD
184 Queen Street So. 905-826-1306

CANADA-ON • Toronto

North American Train Specialists since 1962
Lionel Authorized Distributor & Repair Center
All Scales - Special Orders
Closed Mondays www.georgetrains.com
GEORGE'S TRAINS LTD.
510 Mt. Pleasant Rd. 877-887-2467

CANADA-ON • Toronto

New & used, buy & sell HO & N scale.
Scenic supplies, in store clinics & layout,
friendly service. Paints, tools,
scratchbuilding supplies. Closed Mon.
www.hornethobbies.com
HORNET HOBBIES, INC.
1563 O'Connor Dr. 416-755-4878

CANADA-ON • Toronto

Huge stock. European and Canadian.
Scenic supplies, accessories, spare parts.
LGB, I, O, HO, N, Z, Märklin-Miniclub,
Fleischmann, Roco, Trix, Preiser, Brawa.
Wish lists welcome. johnshobbies.ca
JOHN'S PHOTO-HOBBY EURORAILS
2188 Danforth Ave. 416-421-1850

CANADA-ON • Toronto (Markham)

New Location Now Open!
North American Train Specialists since 1962
HO, N and DCC Specialists
Closed Sun/Mon www.georgetrains.com
GEORGE'S TRAINS LTD.
550 Alden Rd. Unit 101 905-470-6200

CANADA-ON • Windsor

Model Railroading since 1970.
Operational in-store layout.
HO & N trains, bits & pieces.
"Simplified Wiring & Trackwork"
by Fred Steiner
WINDSOR HOBBIES LTD.
3895 Tecumseh Rd. East 519-945-5471

CANADA-QC • Knowlton

Eastern Canada's largest full-service train
specialist. Canadian RRs extensively stock in:
HO, On30, G scales & O-G scales. See our
HO and Garden layouts. 80,000 items in
www.townshoptoys.com
TOWNSHIP TOY TRAINS
5 Mont Echo Rd., Lac Brome 450-243-1881

CANADA-QC • Montreal

Canada's largest full service hobby and train
supply. We carry N-HO-O-G scales. See our
HO and Garden layouts. 80,000 items in
60,000 sq. ft. E-mail: universel@udisco.com
www.udisco.com
HOBBIE UNIVERSEL
4662 Decarie Blvd. 514-481-8107

GERMANY • Dusseldorf

One of the leading shops in Europe for
European & American model trains.
Z-N-HO-HOe-HOm-O-1-G. + second-hand.
www.menzels-lokschuppen.de
email info@menzels-lokschuppen.de
MENZEL'S LOKSCHUPPEN & TOFF TOFF GMBH
Friedrichstr. 6 00492 11/373328

GERMANY • Kaarst

Europe's best known address for US
Railroads. We carry N & HO scale for all
roadnames. Atlas to Walthers. M-F 10-6:30,
Sat 10-2. Overseas orders w/VI-MC-AMX.
www.aat-net.de email: aat@aat-net.de
ALL AMERICAN TRAINS
Am Neumarkt 1 Fax 011 49 2131 769641

ITALY • Ponti

The largest assortment of USA trains in Italy. If
we do not have it we will find it for you! Trains,
T-Shirts, Books and more, any scale. Italian
trains too! Visit: www.bkit.it mail: info@bkit.it
BRADICICH KORPS
via Vittorio Veneto 2 39-0144-596007

SWITZERLAND • Geneva

Big selection of trains, all scales.
Open Mon-Fri 09:00-18:30h
Sat 09:00-17:00h
Fax: 0041-227347709
AU VIEUX PARIS
1 Rue de la Servette 0041-227342576

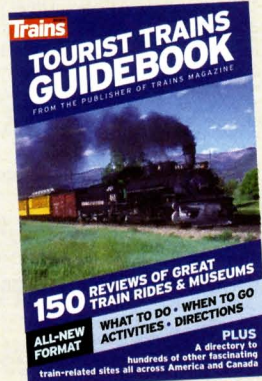
SWITZERLAND • Zurich

100% US-Train Store at 300sqm
Largest stock in Europe.
Open Tues-Fri 1-10:30 pm, Sat 10-4.
Visit our web: http://www.feather.ch
FEATHER'S TRAIN STORE
Hermetschloo-strasse 75 41 44-433 1454

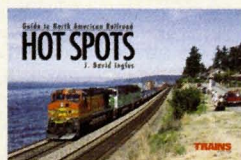
UK-SCOTLAND • Helensburgh

A leading European shop for US trains.
Large range of British & US in HO & N with
most major makes. Fax: 01436 677556
Web: www.macsmodels.co.uk
Open: Mon-Sat 9:30-5:00
MAC'S MODEL RAILROADING
64A Sinclair St. 01436 679444

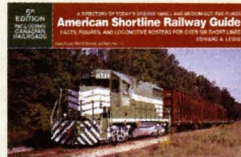
ADD TO YOUR RAILFAN LIBRARY!

**Tourist Trains Guidebook**

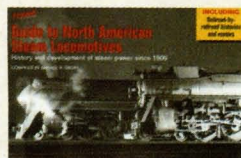
This completely new guide to tourist train sites in North America is both a guidebook of selected train sites and a directory to hundreds of other fascinating train-related attractions. The guided selections give enhanced information about when to go, how to arrive, and tips on what to do when you get there. Includes more than 100 reviews of favorite train rides and museums selected by the editors of *Trains* magazine. Directory listings cover hundreds more train tourism sites and museums. Includes a laminated discount card good for savings on admissions prices. 5½ x 8½, 320 pgs.; 150 b&w photos; softcover.
01207 • \$18.95

**Guide to North American Railroad Hot Spots**

Indispensable for railfans who travel, this guide takes you to 100 of the busiest, most interesting train-watching sites across the U.S. and Canada. Each spread includes a color photo and authoritative text about the site written by train-watching experts all over North America. Contributing Editor J. David Ingles. 8½ x 5½; 208 pgs.; 100 color photos; softcover.
01097 • \$24.95

**American Shortline Railway Guide, 5th Edition**

Lists nearly 600 shortline and regional railroads in the United States and Canada. Includes line history, locations, radio frequencies, and locomotive data. By Edward A. Lewis. 8½ x 5½; 368 pgs.; 100 b&w photos; softcover.
01073 • \$24.95

**Guide to North American Steam Locomotives**

The fascinating history and development of steam locomotives in North America. Tells the stories behind the locomotives, includes rosters, and explains wheel arrangements, streamlining, and more with photos, summaries, and specifications for hundreds of locomotives. By George H. Drury. 8½ x 5½; 448 pgs.; 400+ b&w photos; softcover.
01051 • \$29.95

AVAILABLE AT HOBBY SHOPS. VISIT WWW.HOBBYRETAILER.COM TO FIND A STORE NEAR YOU! OR ORDER DIRECT:

www.TrainsMagBooks.com OR 1-800-533-6644

Mon-Fri, 8:30am-5:00pm Central Time. Outside the U.S. and Canada, call 262-796-8776. Shipping and handling charges apply. Call for details or view online.

PMK-ADH-07X1220RH

T2026

Ad Index

We believe that our readers are as important as our advertisers; therefore, we try to handle all reader's complaints promptly and carefully. If, within a reasonable period, you do not receive your merchandise or an adequate reply from an advertiser, please write to us. In your letter detail exactly what you ordered and the amount of money you sent. We will forward your complaint to the advertiser for action. If no action is obtained, we will refuse to accept further advertising from him. Address complaints to: *Model Railroader* magazine, 21027 Crossroads Circle, P.O. Box 1612, Waukesha, WI 53187.

The Advertiser Index is provided as a service to Model Railroader magazine readers. The magazine is not responsible for omissions or for typographical errors in names or page numbers.

20th Annual Model Train Show . . . 104

A

All Electronics Corp. 104
Allied Model Trains 57
Allen Keller Productions 102
American Beauty Soldering Tools . . . 33
Athearn 7
Atlas Model Railroad Co., Inc. 2
Axian Technology 104
Aztec Manufacturing 103

B

B.T.S. 89
Bachmann Industries, Inc. 27
Bachrus, Inc. 79
Bessemer Hobbies 102
Bill's Trains and Track 102
Blair Line, LLC 32
BLMA 33
Blue Ridge Hobbies 17
BPL Brass Works 47
Bragdon Enterprises 102
Broadway Limited Imports, LLC . . . 18
Bruce's Train Shop 57

C

Caboos Hobbies 57, 93
Caboos Industries 91
Caboos, The 47
Cadrai/Sandia Software 73
Centerline Products 83
Charleston Digital Trains 57
Chicago & N Wstrn Historical . . . 103
Circuitron 89
Classic Metal Works, Inc. 83
Classic Toy Trains magazine 85
Classic Trains magazine 87
Clover House 102
Collectibles Insurance Agency . . . 91
Custom Model Railroads 36
Custom N DCC 104
Cypress Engineering 102

D

DC/DCC Association 57
DeMar Electronics 73
Digital Loco 103
Digitrains (United Kingdom) 57
Digitrax 37
Division Point, Inc. 17
Don Black Brass Trains 103
Dunham Studios 103

E-F

EngineHouse Services LLC 57
EraiHobbies 57
Euro Rail Hobbies & More 91
Factory Direct Trains 18
First Hobby, Inc. 3
First Place Hobbies 33
Full Throttle Trains 103

G

Garden Railway Magazine 85
George's Trains, Ltd. 57

Germanow-Simon Corp 33
GML Enterprises 102
Gotham Model Trains 103
Grand Central Gems, Inc. 102
Great Midwest Train Show 31
Great Model Railroads 2009 19
Great Train Expo 31
Greenberg Shows 31

H

Hawkins Rail Services 28
Hitchcock Chuck 103
Hobby Surplus Sales 104
Hobbycraft Canada 15

I-J

IBL Products 103
iHobby Expo 31
Innovative Train Technology 103
International Hobby Corp 65
Internet Hobbies 33
J & T Junction 102
Johns Hobbies 57
Jordan Products 102

K-L

Kanamodel Products 102
KATO USA, Inc. 115
Kreig Haus Hobby & Coins 104
Lewis County Historical Museum . . 102
Lin's Junction 57
Litchfield Station 100

M

Magic Water 102
Mailcar Hobbies 104
Martin & Johnson Manufacturing . . 100
Micro Engineering 87
Micro-Mark Tools 33
Micro-Trains Line 93
Miniaturics 73
MNP, Inc. 102
Model Memories 103
Model Power 15
Model Railroader Binders 91
Model Railroader Books . . . 88, 90, 99
Model Railroader magazine . . . 73, 113
Model Railroader Special Issue . . . 92
Model Railroader
Track Plan Contest 71
ModelRailroader.com 98
Model Railroads by Chris 104
Model Rectifier Corp. 116
Model Trains Classics Plus 103
Model-Trains-Video.com 102
Modellbahn Ott, Inc. 104
MTH Electric Trains 37

N

NCE Corp 28
Nevada Northern Railway Museum . . 83
New Haven Society
of Model Engineers 12
Nicholas Smith Trains 101
NMRA Northeastern Division . . . 12
Northern Scale Models 102

NorthWest Short Line 17

O-P

Original Whistle Stop, The 57
Osborn Model Kits 104
Pace Enterprises 104
PECO Products 29
Phoenix Sound Systems 103
Progressive Model Design 104
Prototypical Model Trains 102

R

R & S Enterprises 98
RailDreams, Inc. 12
Railroad Hobbies 28
Railroad Positioning System 29
Railtown Windows 102
Rapido Trains 5
Ready to Roll, Inc. 93
Rib Side Cars 104
Rix Products 103
RRTrains.com 103

S

Scale Models Arts & Tech, Inc . . . 32
Shelf Layouts Company 102
Showcase Express 101
Sievers Benchwork 87
Signature Press 17
Solid Design 104
SoundTraxx 87
Sparkling Star Models 13
Standard Hobby Supply 23
Strasburg Railroad Shops 33
Sunbird Train Mart 79
Sunset Models 20

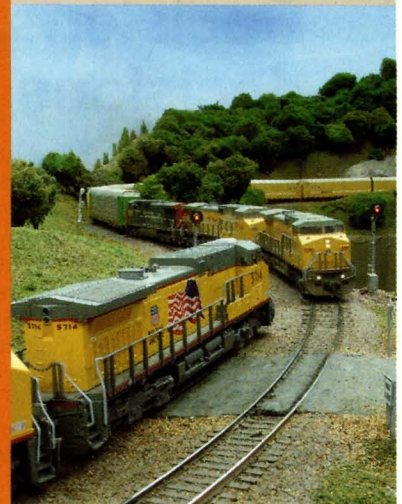
T

Tahoe Model Works 103
TDP, Inc. 101
The Coach Yard 100
Timberline Scenery 89
Tomar Industries 104
Tony's Train Exchange 20, 57
Toy Train Heaven 103
Trackside Layouts 103
Trackside Prints & Hobbies 102
Train Collectors Association 36
Train World 24-25
Trainboxes Plus 102
Trains magazine 104
trainsetonly.com 103
Traintek, LLC 57

U-Z

Ulrich Models 104
What-Detail! 103
Wig Wag, LLC 102
Willis Hobbies 57
Wm K Walthers 21, 29
Woodland Scenics 20, 32
Woodstock Hobbies 102
Xuron 28
Yellowstone Train Repairs 103
Zycon Models 32

COMING NEXT MONTH



Visit a modern N
scale layout based
on the Union Pacific

Buyer's guide to
DCC starter systems

Build a grade
crossing quiet zone
step by step

Adding scenery
to the Waterbury
Industrial District

Model a milk train

Landmark layout:
George Selios'
fabulous Franklin &
South Manchester

Subscribe today!

1-800-533-6644

www.ModelRailroader.com

Model Railroader MAGAZINE

The Operators

Andy Sperandio

Decisions, decisions

The fun in timetable-and-train-order operation as an engineer or conductor is that you have to think your way across the railroad. To give you some sense of what that means, here's a review of the decisions involved every time a train heads out onto the main line. To save time and space I won't spell out all the rules involved. If you're curious about them, see the book *Rights of Trains* by Peter Josserand (Simmons-Boardman).

First we ask ourselves if we have authority to use the main line. At our initial station that means a clearance card authorizing our train to run on a timetable schedule or with a Form G train order authorizing us to run extra with our assigned engine from the initial station to our destination. If we're running extra we'll have to display white signals on the engine, flags or classification lights, to mark our status as a train without a timetable schedule.

If we'll be running as a scheduled train, we either have to wait for our scheduled departure time, or if that's already past, make sure it's still less than 12 hours after that time. Unfulfilled timetable schedules expire after 12 hours.

We'll also have to see if our clearance specifies that our scheduled train is running in sections, meaning two or more trains moving on the authority of the same timetable schedule. If so, we should have a Form F train order with our clearance telling us to display signals (green flags or class lights) for the following sections. If we're the last section (or the only one), we won't need to display signals.

When we're certain of our authority, we next need to make sure that no other train's authority exceeds ours. For that we need to know if all opposing superior trains due within 12 hours of our departure have in



Southern Pacific 4-10-2 no. 5016 is meeting Train 2, the eastbound *Sunset Limited*. Whether the 5016's freight train leaves after the passenger train passes depends a series of decisions by the freight's crew, and the signal indications may not be a factor. Walter H. Thrall photo

fact arrived. We have to look only 12 hours back because any schedules older than that have expired.

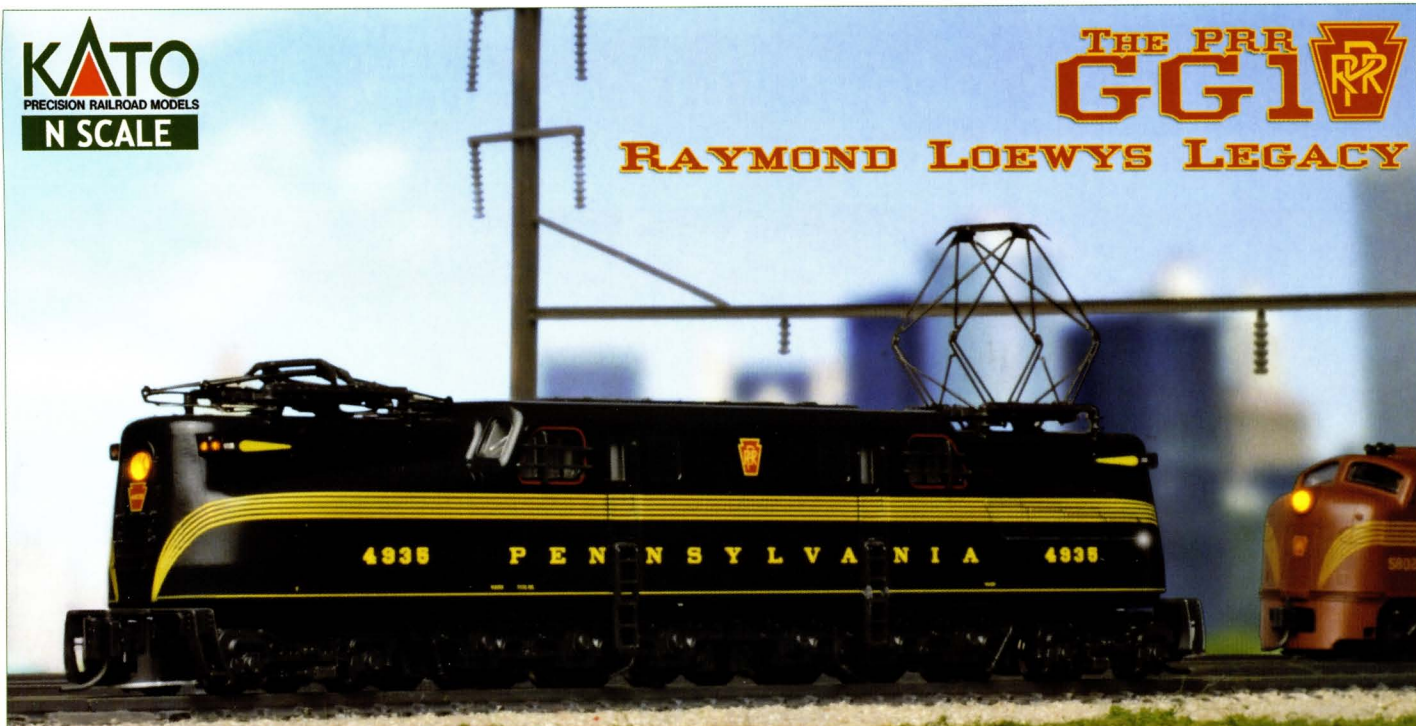
At our initial station we do this by checking the train register, a book where the conductors of arriving trains sign in. At the same time, we can sign out for our train's departure. If an opposing superior train due within the last 12 hours hasn't shown up, we'll have to wait for it. Intermediate stations typically won't have registers, and we'll be responsible for identifying the other trains we encounter to know where we are in respect to schedules.

Next we need to read all the train orders that may have been delivered with our clearance to see if they modify the schedules or superiority of trains. We may have a Form A order to meet a late-running superior train at some station down the line, or a Form C order giving our train right over a train we'd otherwise wait for. If we're running extra, we want to be especially careful to look for orders regarding opposing extra trains. That's because our primary protection against them – especially if it's a "dark" railroad with no block signals – will be train orders.

Are we ready to leave now if we've satisfied all those requirements? Maybe, but smart railroaders won't pull out onto the main track without a clear idea of how far they can safely go. If we have an order specifying a meet or giving right over a superior train to a certain station, that may be a goal we can aim for. Otherwise we'll read the timetable and match our running time against the schedules of other trains to decide which passing siding down the line our train can get into at least five minutes before the next opposing superior train is scheduled.

So that's how we'll get over the railroad, thinking our way from point to point based on the book of rules, the timetable, and the clearances and train orders we receive. We won't be picking up a phone or keying a radio to ask the train dispatcher if we can pull out of a yard or work on the main line. We'll be making those decisions for ourselves using the information we've been provided.

It's a challenging way to operate, and not necessarily for everybody. But if it sounds like a good time to you, give timetable-and-train-order running a try. **MR**



The Pennsylvania Railroad GG1 "Five Stripe"

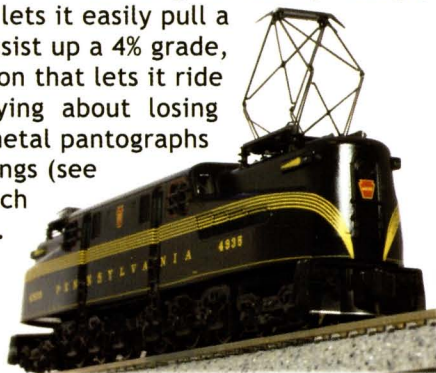
The PRR GG1; A Unique Locomotive in a World of Lookalikes

Sporting twin engines for its 10 axles, the GG1 was a catenary powered electric locomotive, its 4-6-0 + 0-6-4 (GG) wheel configuration grinding out a solid four-and-a-half thousand horsepower during an era where 1000 horses were the norm for passenger locomotives.

The Brunswick Green "Modified Loewy" paint scheme was a refinement of the "as delivered" Loewy paint scheme. It had 5 gold pinstripes and gold Serif "Clarendon" lettering. This "Modified Loewy" five stripe scheme was the most common to adorn the GG1 series of locomotives.

The Kato N PRR GG1; Modern Muscle meets Historic Grace

The Kato GG1 has all the scaled power of the original Loewy design, boasting pulling performance that lets it easily pull a full 15-car "Broadway Limited" consist up a 4% grade, and special shock absorber suspension that lets it ride the rails with ease without worrying about losing electrical contact. The blackened metal pantographs offer three different elevation settings (see right), and provide the finishing touch to this sleek and unique locomotive.

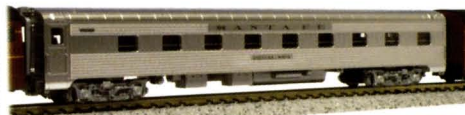


The N PRR GG1 from Kato:
The Ultimate Passenger Power for
the PRR Broadway Limited Train

Item #	Description	MSRP
137-2001	N GG1 PRR Brunswick Green "Five Stripe" #4935	\$139
106-068	PRR Broadway Limited 10 Car Base set	October \$250
106-7111	PRR Broadway Limited 4 Car Add-on set	October \$100
156-0905	Santa Fe 4-4-2 Sleeper "Regal Spa"	October \$25



The GG1's pantographs are adjustable between two elevated and one down position for an elegant prototypical appearance.



REGAL SPA

The Santa Fe 4-4-2 "Transcontinental" sleeper was a transfer-car: it would be exchanged between Chief and Limited trains at Chicago.

You enjoy model railroading.

And you'd like to take it to the next level of control.

But, you're not in the market for DCC.

Now there are 4 powerful alternatives...



Tech 4 200



Tech 4 220



Tech 4 260



Power Command 9500

Realistic performance, power to spare

Depending on the MRC train control you select, features include:

- A momentum switch that triggers electronic circuitry to mimic the gradual increase in speed of an actual loco as it starts hauling a string of heavy freight cars
- A user-controlled brake switch that allows you to coax your loco to a realistic, controlled stop

- Slow, slow speed control that makes precision yard work and smooth coupling possible
- The Power Command 9500 features ammeter and voltmeter to continuously monitor your layout... track, locos and accessories,

All of these units run HO, N and other DC scales and are supported by a Five-Year Limited Warranty.

To get the details about all MRC's advanced model train controls and sound systems, visit us at www.modelrectifier.com



M O D E L R E C T I F I E R C O R P O R A T I O N
80 Newfield Ave. ■ Edison, New Jersey 08837 ■ Phone: 732 225 6360 www.modelrectifier.com

TECHNOLOGY. PERFECTED.

☐ Model railroads ☐ Plastic model kits ☐ Battery chargers ☐ Radio control helicopters, planes, cars & boats ☐ Model aircraft engines ☐ Die cast